

MINERAL Solutions





Experience More Innovation

WITH FUNCTIONAL, NATURAL AND SUSTAINABLE MINERAL SOLUTIONS

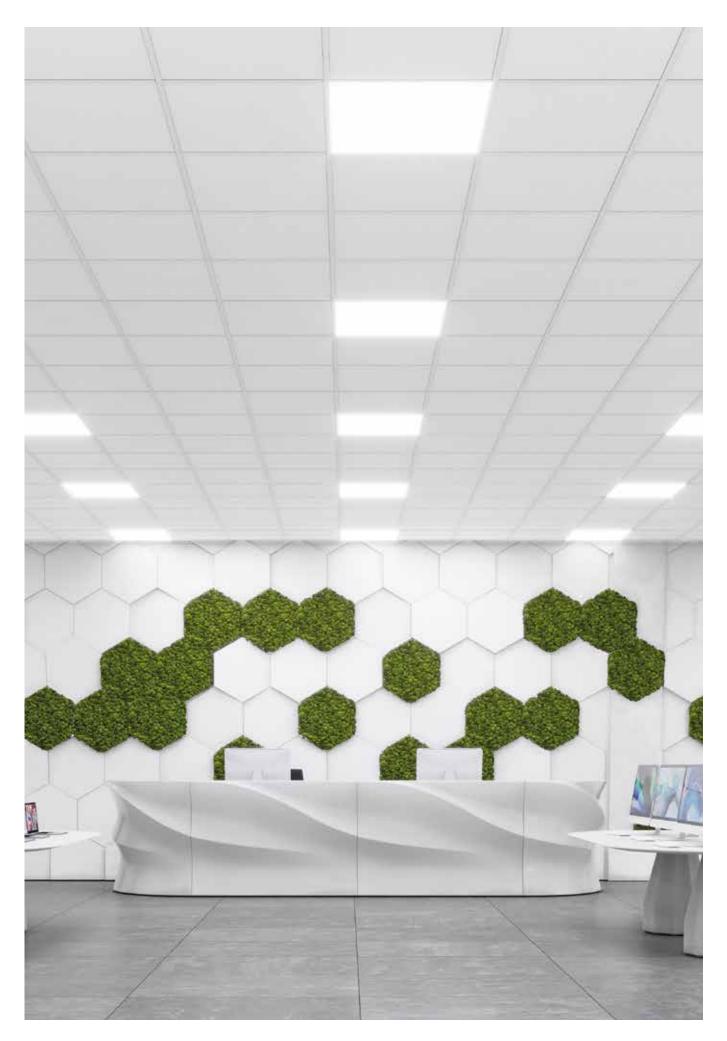
We believe that the ceiling is an integral part of every interior space. It helps give us a wonderful sense of well-being and safety. A seamless connection between form and function, it enhances and protects the spaces in which we live, work, recover and grow. It balances acoustics, provides healthy air to breathe and influences how we think and feel.

Ultimately, it is our customers who create the perfect space using our solutions. To help them realise more exciting visions, two of the world's most recognised ceiling manufacturers, Armstrong Ceiling Solutions and Knauf AMF have combined strengths to offer the best of both in one market-leading brand – Knauf Ceiling Solutions.

Spectacular projects can only become reality if the possibilities between functionality and design live in harmony. Our new harmonised Mineral Solutions range enables customers endless varieties of sizes, shapes and edge designs in all system layouts.

The high-quality mineral tiles are produced in a wet-felt tile process that uses natural, sustainable raw materials, including biosoluble mineral wool, perlite, clay and starch.

By embodying the best of both worlds and building on our long-standing experience, Knauf Ceiling Solutions is setting the standard for safety, comfort, efficiency and performance. With a boundless multi-material approach that enables you to experience more choice, more inspiration and more support, to help find the unique solution you're looking for.

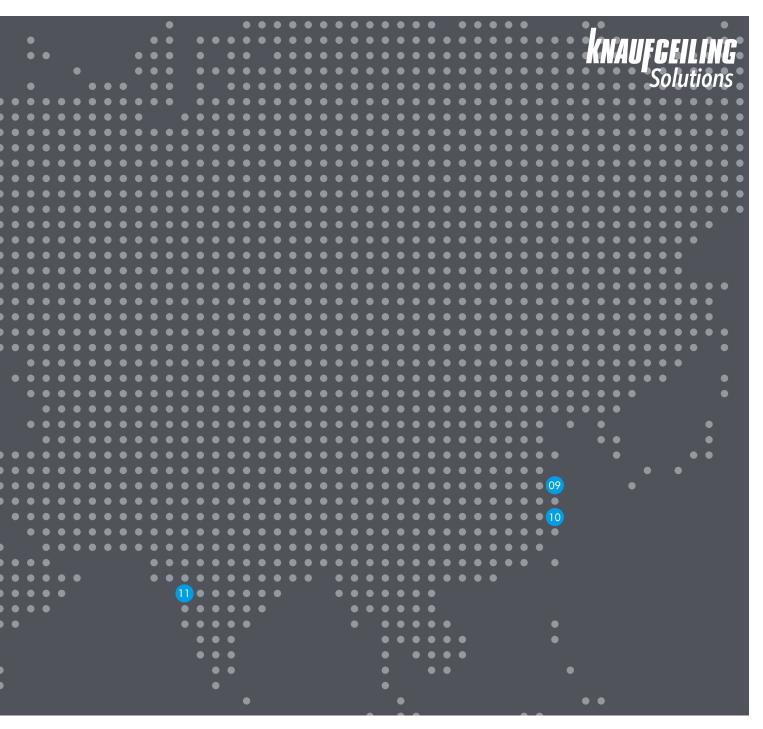


•••••				•		$\bullet \bullet \bullet \bullet \bullet$	• • • •	•
• • • • •				• •	••••	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet$	$\bullet \bullet \bullet$
							• • •	
					•••		• • • •	
					• • •		$\bullet \bullet \bullet \bullet \bullet$	
					• •		$\bullet \bullet \bullet \bullet \bullet$	
•			• •	$\bullet \bullet \bullet \bullet$	• •			
			• •		•	• •		
	•		• •	• • •				
				• •				
			•					
			•					
		• 02						
		• • •						
				$\bullet \bullet \bullet \bullet$			$\bullet \bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \bullet$
				• • • • • •			$\bullet \bullet \bullet \bullet \bullet$	
			• • 03 •	07 06	$\bullet \bullet \bullet \bullet$		$\bullet \bullet \bullet \bullet \bullet$	
					$\bullet \bullet \bullet \bullet$		$\bullet \bullet \bullet \bullet \bullet$	
					$\bullet \bullet \bullet \bullet$		• • • •	
							• •	
	• • •	$\bullet \bullet \bullet$		•				
	••	• • •		• •			••	
	• • •	• •	• •	•	• •			
	••			••	•	• • •		
						•		
			• • • •					
				• •				
							$\bullet \bullet \bullet \bullet$	
• •	$\bullet \bullet \bullet$	$\bullet \bullet \bullet$	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \bullet$	••••		• • • •	$\bullet \bullet \bullet \bullet$
• • •	$\bullet \bullet \bullet$	$\bullet \bullet \bullet$	$\bullet \bullet \bullet \bullet$		$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \bullet$	• • •	
					$\bullet \bullet \bullet \bullet$		••••	
					$\bullet \bullet \bullet \bullet$		••••	
					$\bullet \bullet \bullet \bullet$		• • •	
	• • •	• • •						$\bullet \bullet \bullet$

Production Network

EXPERIENCE OUR LARGE AND COMPREHENSIVE NETWORK

Through the local presence of thirteen state-of-the-art production facilities in eight countries across Europe and Asia, we are able to deliver high-quality ceiling solutions on time. In order to provide our customers consistent and reliable supply processes, we rely on our proven production values that meet the highest standards worldwide in quality, environment and safety.





EMEA

- 01 Grafenau (DE) Mineral & Grid 02 Stafford (UK)
- Metal 03 Pontarlier (FR)
- Mineral Valenciennes (FR) Grid
- **05 Dreux (FR)** Grid
- 06 Ferndorf (AT) Wood Wool 07 Rankweil (AT)
- Metal
- **08** Antwerp (BE) Slitting



APAC

- **09 Wujiang (CN)** Mineral
- **10 Shanghai (CN)** Grid
- **11 Pune (IN)** Grid



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 (a_w) or to ASTM C 423 (NRC).



SOUND ABSORPTION CLASS

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



SOUND REDUCTION

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



SOUND ATTENUATION

A single-number rating for flanking sound transmission between adjacent rooms, as calculated by reference to EN ISO 717-1 (D_{nfw}) and/or ASTM E413-10 (CAC).



FIRE REACTION

Reaction to fire classification in accordance with EN 13501-1 expressed as Euroclass (A1 – F). Additionally in accordance with ASTM E84, expressed as Class A and 123-FZ, expressed as KM0 – KM2.



RECYCLED CONTENT

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



CERTIFIED CRADLE TO CRADLE

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.



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.



M1 CLASSIFICATION

The Finnish emission label for building products is one of the leading test labels in the Scandinavian region. M1 is the best category and stands for "low emission". The M1 classification sets requirements for the emission of VOC, formaldehyde, ammonia and other substances.



HUMIDITY RESISTANCE

Maximum relative humidity conditions for installation and lifetime of ceiling.



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.



LIGHT DIFFUSION

The percentage of reflected light which is diffused.

INDOOR AIR QUALITY

The Eurofins Indoor Air Comfort (Gold) certification ensures that all product-related health criteria on product emissions are sufficiently fulfilled. It is a sign confirming the quality claim of the manufacturer and its contribution to a healthy indoor climate. Mainly VOCs emissions can pose a serious risk, especially to children. Limiting VOC from indoor building products is the subject of many national regulations and voluntary quality labels. A lot of these regulations are covered by IAC(G).



AIR PERMEABILITY

Tested in accordance with DIN 18177, the air permeability rating indicates the cubic metres of air leakage per hour per square metre.



voc

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



FORMALDEHYDE (E1)

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



BLUE ANGEL

The Blue Angel ecolabel is awarded by an independent Jury to environmentally friendly products. Each label specifies that the product meets a list of criteria considering environmental and health-related aspects.

www.blauer-engel.de/uz132



ISO 9001

This icon demonstrates Knauf Ceiling Solutions ability to consistently provide products and services that meet customer and regulatory quality management system requirements.

KNAUFCEILING Solutions



THERMAL CONDUCTIVITY

Tested in accordance with EN 12667, the thermal conductivity rating measures the rate of heat flow through a material.



EDGE DETAILS

Indicates the different edge details available for the ceiling tile of reference.



THICKNESS

Indicates the thickness for the ceiling tile of reference.



DIMENSIONS

Indicates the sizes available for the ceiling tile of reference.



SYSTEMS

Indicates the suspension systems compatible with the ceiling tile of reference.

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 deposits, 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 with 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 a high pressure water spray. After cleaning, the surface should be dried.



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



Can be cleaned with specific disinfectants commonly used in healtchare premises. Disinfectants should be used as a spray on wipes.

WFIGHT

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



COLOURS

Custom colours available for products with this icon.



ANTIMICROBIAL

Antimicrobial finish on standard mineral tiles and available as a custom option on metal products with this icon.



SCRATCH RESISTANCE

Products with this icon offer a superior level of surface scratch resistance, evaluated with the Hess Rake test.



PRODUCT HANDLING & DURABILITY

Solutions with enhanced durability for improved handling and resistance to damage.

CE MARKING

In Europe, 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 (mandatory)
- Sound Absorption
- Flexural Tensile Strength / Durability
- Thermal conductivity

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, a_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 a_w will vary between 0.00 and 1.00 but is only expressed in multiples of 0.05, e.g. $a_w = 0.65$.

WEIGHTED SUSPENDED CEILING NORMALISED LEVEL DIFFERENCE, D_{ncw}

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne sound insulation of a suspended ceiling above adjacent rooms sharing a common ceiling plenum. It is determined in accordance with EN ISO 717-1 from measurements made in accordance with EN 20140-9. Note: EN 20149-9 has now been withdrawn and superseded by EN ISO 10848-2 (see D_{nfw}), although D_{ncw} test results still continue to be valid.

SHAPE INDICATOR

With reference to EN ISO 11654, the calculated value of w may be qualified by one or max. two (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	a"
А	0.90; 0.95; 1.00
В	0.80; 0.85
С	0.60; 0.65; 0.70; 0.75
D	0.30; 0.35; 0.40; 0.45; 0.50; 0.55
Е	0.15; 0.20; 0.25
Not Classified	0.00; 0.05; 0.10

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

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne flanking sound transmission of a suspended ceiling above adjacent rooms 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. This has now superseded EN 20149-9. (see D_{ncw}).

WEIGHTED SOUND REDUCTION INDEX, R

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.



RAIN NOISE SOUND INTENSITY LEVEL, L

The laboratory measurement of the sound intensity in a room below a roof construction when subjected to rainfall. It is determined by reference to EN ISO 140-18:2006 – Laboratory measurement of sound generated by rainfall on building elements. The roof's performance can be tested with or without a suspended ceiling beneath. The intensity of the rainfall tested can be selected from the options given in the standard. A combined A-weighted single-number (LIA) can also be determined. Unlike D_{nfw} and R_w data, where the higher the value the better the insulation provided, the lower the intensity value (weighted LIA) the better the insulation performance of the ceiling and roof combination.

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.

NOISE REDUCTION COEFFICIENT, NRC

A single-number descriptor of random incidence sound absorption coefficients. Defined in ASTM C423 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.

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'.

Meet all expections of acoustical comfort with Knauf Ceiling Solutions

Knauf Ceiling Solutions provide three densities of ceiling tiles to achieve high absorption, high attenuation or a good balance between the two of to meet all requirements in every space.

BALANCED ACOUSTICS

Standard range provides a unique combination of good sound absorption and sound attenuation that enhance intelligibility for workplace effectiveness.

Speech intelligibility addresses the need for comprehension of verbal communication whether naturally spoken or broadcast by an amplified system, within a given space.

Intelligibility can be expressed as the difference in decibels between the level of speech and the background noise (signal to noise ratio) as heard at the listener's position.

To ensure excellent intelligibility, this difference at the listeners position is recommended to be 10-15 dB minimum for people with good hearing and 20-30 dB for hearing impairing of users of headsets.

HIGH ATTENUATION

Our dB range offers excellent sound attenuation and good sound absorption that enhances privacy and confidentiality.

Speech privacy is a measure for defining the degree to which conversation cannot be overheard.

For good privacy between adjacent spaces, it's necessary to focus on room-to-room sound attenuation and the background noise level.

HIGH ABSORPTION

Products with high absorption levels are recommended when concentration is needed. They dramatically improve the acoustic comfort in open spaces, call centres, etc.

Concentration can be disturbed by different types of noise, such as other peoples' voices, phones ringing, ventilation, keyboard, equipment, impacts, road and air traffic...

Intrusive noise will disturb concentration and therefore needs to be considered as another key factor in the design of the acoustical environment.

FIRE REACTION



STRUCTURAL FIRE PROTECTION

Throughout Europe, there is a requirement for a building's structure to be protected from fire. This is primarily for the structure to remain stable during a fire to allow the occupants to escape and also to enable fire fighters to work without threat of the building's collapse. The duration of the required protection will usually depend upon the height of, and location within, the building (i.e. typical floor, basement, roof construction etc), whether there is any active methods of fire protection (sprinklers etc.) and the type of construction to be protected (steel beams, timber or mezzanine floors etc). In the case of structural fire protection, the suspended ceiling is classified together with the soffit and the complete construction.

Knauf Ceiling Solutions ceilings achieve building component classifications of REI30 to REI120, depending on the type of soffit. Regular fire testing is carried out to ensure the highest up to date system quality and built in safety for our customers.

INDEPENDENT FIRE RESISTANCE

Independent fire rated ceilings provide fire protection both from above (ceiling void) as well as from the underside of the ceiling. Fittings, such as lighting, loudspeakers and signage etc. as well as the connection to light-weight partition systems, bulkheads etc. are tested and classified as well.

In case of a fire in the ceiling void (incidentally, the most common fire source) the underlying escape routes are protected by AMF THERMATEX[®] Uno fire rated ceiling for 30 minutes.

Fire resistant certificates such as the German abP- certificates are available on request.

BUILDING REGULATIONS

Fire reaction performance for suspended ceilings is shown using the Euroclass fire reaction classification. Most Knauf Ceiling Solutions products are reaching A2-s1,d0 acc. to EN 13501-1.

For more information, please contact us or visit www.knaufceilingsolutions.com

HEALTHY INTERIORS

CHALLENGE

The World Health Organization reports that 30% of new and renovated buildings receive excessive complaints related to indoor air quality.

In addition, poor air quality, and elevated temperatures consistently lowered employee performance by up to 10%.

SOLUTION

Knauf Ceiling Solutions:

- achieve low or very low VOC and formaldehyde emission levels.
- have all been classified E1 for formaldehyde (best test result possible).
- for a large majority, achieve A+ (the best performance level under the stringent French VOC labelling system).

In certain indoor spaces such as laboratories

It is essential to limit the number of airborne particles by creating a Clean Room-type environment using products certified in accordance with ISO 14644-1.

Knauf Ceiling Solutions offers solutions for areas requiring minimal to the most stringent requirements.



Achieving the right acoustics for specific rooms is recognised in LEED[®], BREEAM, HQE, DGNB, WELL Building Standard.

VISUAL COMFORT

KNAUFCEILING Solutions

CHALLENGE

The light reflectance of the ceiling, floor and wall surfaces play the second most important role for overall illumination of the room, directly affecting working comfort, wellbeing and productivity.

SOLUTION

Specifying high light reflectance ceilings contribute to LEED[®], BREEAM, HQE, DGNB and Well Building Standard credits.

A well-design ceiling with high light reflectance:

- Improves space illumination, allowing for fewer light fixtures
- Reduces electrical light output and lowers maintenance costs
- Reduces cooling load

High light reflectance ceilings up to 87% of the light back into the space.

Rafts and canopy ceilings installed over a working place improve the light reflection for better comfort for the end-user.





Cradle to Cradle Certified®

The Cradle to Cradle Certified[®] product programme has been developed to meet growing customer demand for sustainable products, with C2C certification already becoming a requirement for building projects in the United States and Europe. It adds value to a project and helps protect and sustain our environment for future generations by keeping resources in the economy for longer. Cradle to Cradle Certified[®] products are recognised in LEED[®] and WELL Building Standard credits.



OFFICE



WORKPLACES THAT WORK BETTER

Over our lifetimes, the average person spends around 90,000 hours in the workplace. It's our responsibility to make these spaces better for everyone.

This isn't just about happiness — even if happier workers are better workers. It's about wellbeing in the workplace. Wellbeing boosts productivity. It improves performance, reduces stress and contributes to a work-life balance that brings out the best in people. And one of the ways we can promote wellbeing in the workplace is through design.

By considering aesthetics, light, shade and zoning, intelligent design can transform even the most uniform open-plan office into a vibrant, dynamic space that balances contemporary architecture and statement design with visual, and acoustic comfort that measurably enhances wellbeing and happiness, productivity and performance.

Even beyond these considerations, the principles we use in enabling great office design can create more functionally effective spaces for working. Spaces for close collaboration and quiet concentration; spaces that keep conversations private, or open the floor to discussion and debate — and spaces that aid focus while inspiring workers and visitors alike. This is our task, our responsibility and our opportunity, together, to create workspaces that work better.



EDUCATION



CREATE SPACES TO INSPIRE

Having an education that will last a lifetime is down to outstanding, inspirational teachers that deliver learning with knowledge and passion — but these tutors need the right spaces in which to do this.

Schools, colleges and universities are complex ecosystems, and the buildings that house them need to take this into account. They encompass everything from focussed classrooms, quiet study areas to sweeping auditoria and lecture theatres, sound studios and common rooms. Each space has its own requirements and intricacies — but all need to optimise the learning experience.

So, what does this take? It takes careful consideration of architectural zoning, and how each space works individually and as part of the ecosystem. It takes a balance of acoustic performance and visual comfort — where tutors can be heard clearly at the back of the class, and where students can concentrate on their work.

Above all, however, it takes an awareness, sensitivity and commitment to creating a safe, healthy and peaceful environment for education to thrive, and a dedication to creating spaces as inspiring as the teaching within them.



RETAIL



SHAPING THE RETAIL EXPERIENCE

The path to purchase is never straightforward. There's a world of factors along the way that can sway a decision. And a major one of these is the retail environmen — and the experience it creates.

Whether it's a supermarket or convenience store, shopping mall or showroom, food court or fashion boutique, the design of a retail space is integral to the shopper experience — and we should treat this experience like any other we'd desire to have. It should be comfortable and easily navigable, but it should also surprise, excite, entertain and entice.

The materials, technologies and techniques we use to create our retail environments are vital for making this happen. Visually arresting design features; playful manipulation of light and shade, colour and shape; bright, open and airy room plans; intuitive pathways, and acoustically comfortable, unintimidating spaces to encourage customer interaction and streamline the sales process. All of these play their part in a positive shopper experience.

By blending functionality with flair, great design doesn't just breathe fresh life into brands in the real world — it shapes a retail experience that people will enjoy, share and remember.



LEISURE & HOSPITALITY



MAKE YOURSELF AT HOME

Rest and relaxation is crucial for everyone's way of life — especially as everyone's way of life is different. But whatever people get up to in their downtime, their leisure spaces should be as enriching as their pastimes.

Sometimes, it's all about high-tempo sports or hitting the gym. Other times, it's dining out, heading away for a hotel stay, or simply taking in a film at the cinema. There's a huge variety of spaces in which we spend our free time, but all of them share one requirement for design and architecture: creating the right atmosphere to enhance quality of life.

This might take the form of maintaining the right acoustical balance to focus viewers on the movie. It might be flooding fitness studios with light while keeping an effective thermal performance and maximising humidity resistance. Or, it might be designing a hotel as part of a multi-use building in which statement design atria and lobbies give way to cosy, comfortable guest rooms.

For every architectural challenge in leisure and hospitality spaces, there's an idea to help you achieve it — a solution to make your work easier and more effective. Because, let's face it, everyone deserves a little relaxation.



HEALTHCARE



CREATING SPACES FOR HEALING

Healthcare places huge demands on architecture — no matter if it's a waiting room in a local surgery or the intense environment of the operating theatre. In every space, there's a host of considerations critical to lives.

The most vital element is, of course, creating a space that's conducive to healthcare — hygienically clean, performing at the anti-microbial level, using materials and technologies that enhance indoor air quality and minimise emissions, and safeguarding patients and caregivers alike through robust fire protection.

Going beyond this, it's our responsibility to design environments that actively aid the healing process. Given the proven importance of natural light to wellbeing, it's imperative that our healthcare spaces are bright and open, with high levels of light reflectance that makes the most of window space. Acoustically, too, these spaces need to absorb and attenuate noise, providing the peace, quiet and tranquillity for people to rest and recover

Ultimately, healthcare environments need to be perfectly attuned to their purpose, functionally and aesthetically. Clean and simple, bright and welcoming, calm and comfortable. Everything it takes for doctors to perform and patients to recover — and all the ingredients to create the perfect spaces for healing.



TRANSPORT



ARCHITECTURE THAT MOVES PEOPLE

Our world is always in motion — billions of people travelling from city to city, continent to continent. And the buildings in which they arrive and depart need to play their part in making every journey better.

From airport departure lounges to train station concourses, from the food court through to the platform, the architecture of transportation is a journey. Ceilings, walls and floors are travellers' companions; the first and last things they'll see in any location, the backdrops to meetings and partings — and a crucial part of people's journeys.

So, we should approach these buildings rationally and emotionally. They need to be functional, to guide travellers to gates, lounges and platforms. They need to be clean, maintainable and durable to cope with the footfall of millions every day. But they also need to be calming and welcoming; tranquil, peaceful places that encourage exploration.

To this end, we need to transform the dark tunnels and cavernous lobbies that once characterised transport hubs into bright, open and desirable spaces, concealing the noise and passage of crowds to make people feel comfortable. And all of this while using design to make an impression – to create spaces that move people, physically and emotionally.

OVERVIEW

DESIGN

MINERAL Baffle Element	30
MINERAL Baffle Element Arc	32
MINERAL Baffle Line L / N	34
MINERAL Sonic Element	36
MINERAL Sonic Line Arc	38
MINERAL Sonic Line	40

MINERAL Wallcoustic Element	42
MINERAL Wallcoustic Line	44
FABRIC Wallcoustic Line	46
AMF THERMATEX® Alpha Colour	48
Focus: AMF THERMATEX® Varioline	50

SMOOTH WHITE ACOUSTIC

AMF THERMATEX [®] Acoustic	54
AMF THERMATEX® dB Acoustic	56
AMF THERMATEX® Alpha HD 19mm	58
AMF THERMATEX® Alpha HD 30mm	60
AMF THERMATEX® Alpha HD 35mm	62
AMF THERMATEX [®] Alpha One	64

AMF THERMATEX® Alpha	66
Antaris	68
AMF THERMATEX® Thermofon	70
AMF TOPIQ [®] Prime	72
AMF TOPIQ [®] Efficient Pro	74

HEALTHCARE & HYGIENE

Armstrong BIOGUARD Acoustic OP	78
Armstrong BIOGUARD Acoustic	80
Armstrong BIOGUARD Plain 15mm	82
Armstrong SANIGUARD	84

AMF THERMATEX [®] Aquatec	86
AMF THERMATEX® Aquatec Hygena	88
AMF THERMATEX® Thermaclean	90
Armstrong NEWTONE	92





AMF THERMATEX[®] Feinstratos Micro

CLASSIC FISSURED/PERFORATED

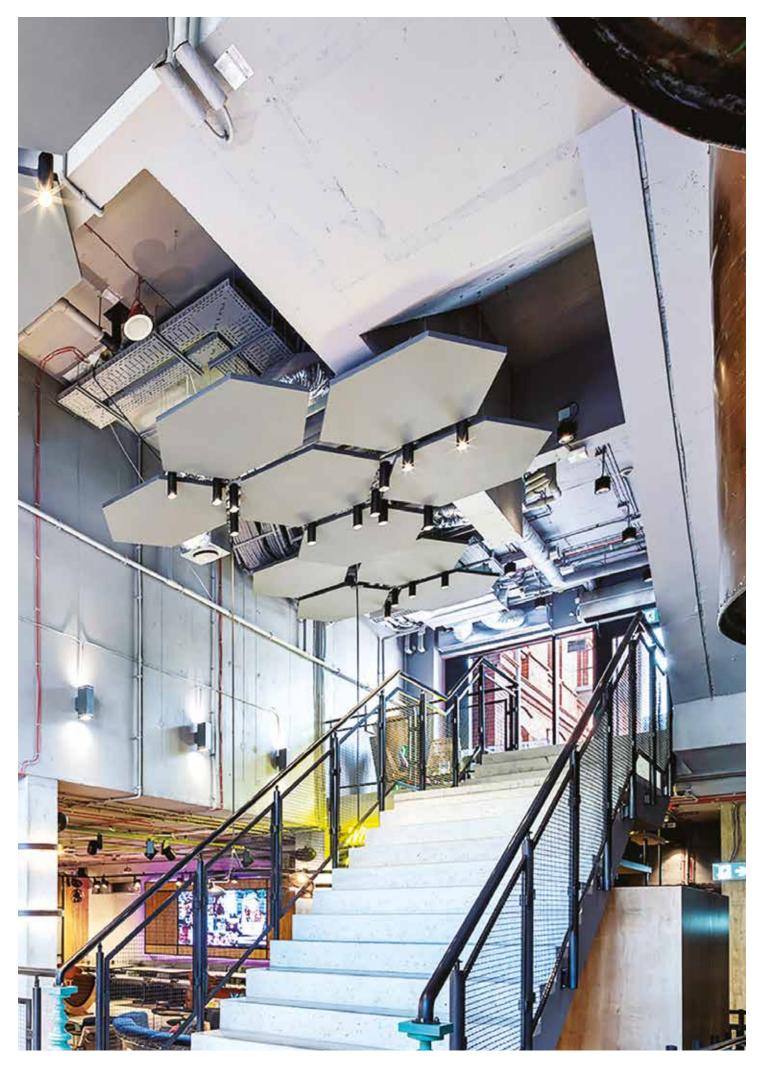
Star 15mm	100	AMF THERMATEX [®] Feinfresko	102

96

FIRE PROTECTION

AMF THERMATEX® Uno

106



Design

IN A WORLD WHERE IMAGE IS EVERYTHING, OUR FLEXIBLE CEILING SOLUTIONS INSPIRE YOU TO CREATE STUNNING AESTHETICS AND INTIMATE SPACES.

An endless array of dramatic design possibilities with baffles, canopies, wall absorbers and accessories that can be easily installed and relocated without further modification. Exposed surfaces that absorb sound to enhance acoustics, while reflecting up to 87% of light to make brighter, energy efficient spaces. And seamless, monolithic floating ceilings that add colour, shape, depth, scale and rhythm to contemporary building design.





Vertical Baffle Systems **MINERAL Baffle Element** Individual / Grouped



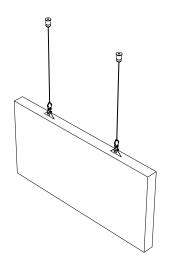
- MINERAL Baffle Element is a range of high performance acoustical baffles with a white laminate surface for a modern linear appearance.
- Good sound absorption: reduce noise levels, increase intelligibility and reduce reverberation time in a space
- Typically used to provide high levels of acoustic absorption in offices, leisure centres, transport hubs, etc

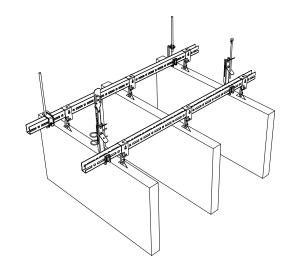


Vertical Baffle Systems **MINERAL Baffle Element**

Individual / Grouped

Thickness (mm)	39					
Dimensions (mm) Additional dimensions available on request	1200 × 300 1200 × 400	1800 × 30 1800 × 40				
System	Hanging Wire Kit U Profile grouping option T Grid grouping option					
Weight	1200 x 300: 3.8 kg / pc 1200 x 400: 5.0 kg / pc	1800 × 30 1800 × 40	0: 5.6 kg / pc 0: 7.5 kg / pc			
Colour & design	Weight Vario Design Colours White Granite	n Marble Copper	Oak	Brass	Sandstone	Concrete
Sound absorption	EN ISO 354 $ \alpha_w = 0.50(MH) (300mm) \text{ as per EN ISO 17} $ Frequency $f(Hz)$ Baffles 1200 x 300mm $ \alpha_p \text{ Row distances 300mm}$ NRC = 0.65 (300mm) as per ASTM C 423	1654 - Class D 125 25 0.15 0.1		1000 0.90	2000 0.90	4000 0.95
Fire reaction	Euroclass A2-s1,d0 as per EN 13501-1					
Humidity resistance	90%					
Indoor air quality 🔒 😭	A+ E1 IACG					
Cleanability	P P.					
Sustainability						









- With MINERAL Baffle Element Arc you can create exciting interiors without compromising acoustic performance, even with modern exposed soffit ceilings
- Modern curved appearance
- Reduce noise levels, increase speech intelligibility and reduce reverberation time in the space
- Install individually or in groups
- Typically used in schools, offices, leisure centres, transport hubs, etc.

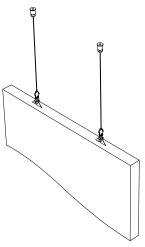


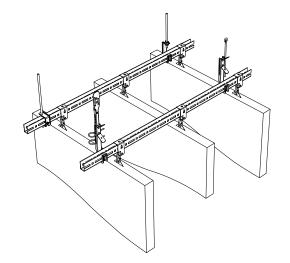
Vertical Baffle Systems MINERAL Baffle Element Arc

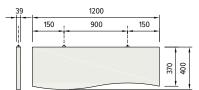
Individual / Grouped

Thickness (mm)	↓ ↑	39										
Dimensions (mm) Additional sizes on request	 	1200 x 400 1800 x 400										
System	1	Hanging Wi U-Profile gro T-Grid Main	ire Kit ouping option n Runner grouj	ping option								
Weight	Kg	1200 x 400 1800 x 400										
Colour & design			🚾 Vario De	sign Colours	5							
-												
		White	Granite	Steel	Green Marb	le C	Copper	Oak	Brass	s So	andstone	Concrete
Sound absorption		EN ISO 354										
	200	17	NH) as per EN	VISO 11654	4 - Class D							
		Frequency f				125	250	500	1000	2000	4000	
			distances 300			0.15	0.25	0.45	0.90	0.90	0.95	
		NRC = 0.65	as per ASTM	C 423								
Fire reaction	F	Euroclass A	2-s1,d0 as p	er EN 1350	1-1							
Humidity resistance	4	90%										
Indoor air quality	(*	A+	E1	CHAR CONFEE CONTINUES CONT								
Cleanability		P	P.									
Sustainability												

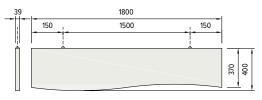
MINERAL Baffle Element Arc







Module 1200 x 400 mm



Module 1800 x 400 mm



Vertical Baffle Systems MINERAL Baffle Line L/N (THERMATEX® Baffle)

Individual / Grouped (only MINERAL Baffle Line L)



- MINERAL Baffle Line L and Line N features an aluminium frame and white laminate surface for a modern linear appearance. MINERAL Baffle Line L and Line N are also available in a variety of colours or customised graphic prints on request
- Good sound absorption: reduce noise levels, increase intelligibility and reduce reverberation time in a space
- Typically used to provide high levels of acoustic absorption in offices, leisure centres, transport hubs, etc



Vertical Baffle Systems MINERAL Baffle Line L/N

Individual / Grouped (only MINERAL Baffle Line L)

Thickness (mm)	↓ 50										
Dimensions (mm) Additional sizes on request	1200 × 30 1200 × 40					0 x 300 0 x 400					
System	MINERAL	Baffle Line N - wi Baffle Line L - wir Baffle Line L - U-f	e hanger wit	h tab conn	ector						
Weight		0: 3.2 kg/pc 0: 4.1 kg/pc					4.7 kg/p 6.0 kg/p				
Colour & design	Frame: A	nodised Aluminiu	um, White, Co	olours							
		v Vario Desig	gn Colour] [
	White Motif: Cu	Granite stom Graphic Prin		Green Marble	Сор	per	Oak	Brass	So	andstone	Concrete
Sound absorption) 11654 - (Class C						
	Frequency	f (Hz)			125	250	500	1000	2000	4000	
		00 x 300mm v distances 300m	ım	().35	0.40	0.55	0.90	0.90	0.90	
	NRC = 0.6	5 as per ASTM (2 423								
Fire reaction	Euroclass	\2-s1,d0 as per	EN 13501-1	1							
Light reflectance	88%										
Humidity resistance	90%										
Cleanability	<u></u>	P.									
Sustainability											
MINERAL Baffle Line L									MINER	AL Baffle Li	ne L

MINERAL Baffle Line N



Floating Canopy Systems MINERAL Sonic Element (TOPIQ[®] Sonic Element, Optima Canopy) Individual / Grouped



- MINERAL Sonic Element is a frameless and jointless ceiling raft. It also benefits from
- The monolithic ceiling raft design offers excellent sound absorption properties and when installed gives the appearance of a free floating ceiling cloud

Floating Canopy Systems **MINERAL Sonic Element**

Individual / Grouped

Thickness (mm)	40								
Dimensions (mm) Additional sizes and shapes on request	Trapezoid Hexagon Left Parallelogram Right Parallelogram Square Square Rectangle Rectangle	1180 × 870 1363 × 1180 1180 × 1180 1180 × 1180 800 × 800 1180 × 1180 1180 × 580 1780 × 880		Rectangle Rectangle Circle Circle Circle Convex Concave Triangle	2380 Ø80 Ø120 Ø160 1170 1170	00			
System	Individual: Wire Ha Grouped: U-Profile	nger							
Weight Kg	0.0 kg∕m²								
Colour & design	White Granit	e Steel	Green Marble	Copper	Oak	Brass	Sar	ndstone	Concrete
Sound absorption	EN ISO 354								
	Frequency f (Hz) Equivalent Absorpti	on Area Aobi*		125	250	500	1000	2000	4000
	Square: 1180 x 118		n height 190mr	n 0.40	1.20	2.20	2.40	2.40	2.30
	Rectangle: 1780 x	1180mm / Suspens	ion height 190	mm 0.80	2.10	3.10	3.30	3.50	3.40
	Rectangle: 2380 x				2.70	4.20	4.40	4.50	4.30
	Circle: Ø1200mm /	Suspension heigh	t 150mm	0.40	1.00	1.70 the average of	1.80	2.00	1.90
Fire reaction) as per EN 13501	-1			ine droidge (
Light reflectance	Up to 88%								
Humidity resistance	90%								
Indoor air quality		Great Products							
Cleanability	P P.								
Sustainability	BC 12722008 Annue 0								
Flexible design and adjustable to vario	us heights using steel cables.				5			3	

Floating Canopy Systems **MINERAL Sonic Line Arc** (THERMATEX[®] Sonic Arc) Individual



- Create unique, elegant designs with an array of MINERAL Sonic Line Arc concave and convex canopies
- Play with custom colours to create exciting contrasting effects
- MINERAL Sonic Line Arc allows you express your creativity and accentuate an area using new spacial effects

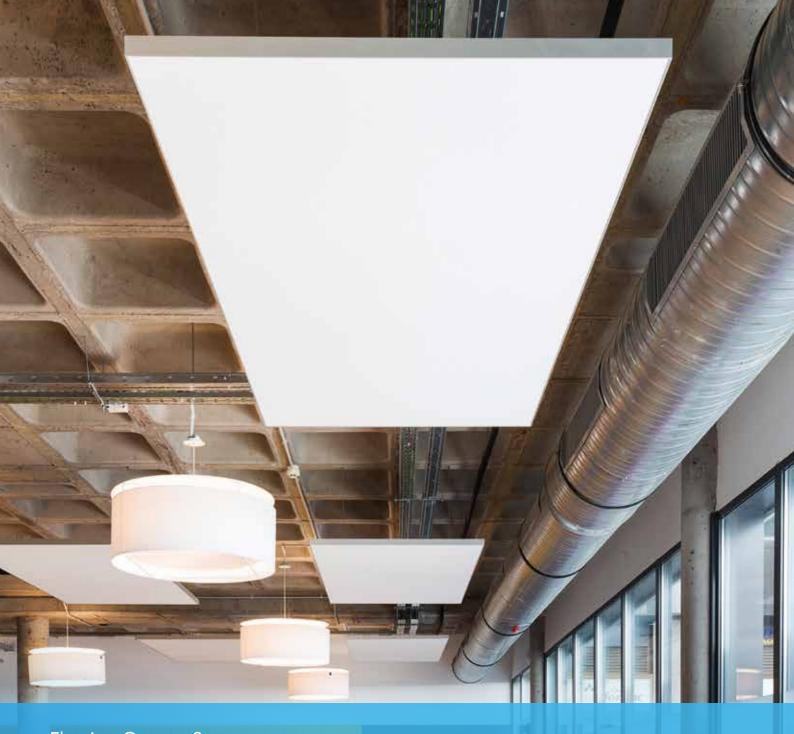


Floating Canopy Systems **MINERAL Sonic Line Arc** Individual

Edge details		MINERAL Sonic Line Ar	c Concave 1910		2	MINE Sonic	RAL Line Arc (Convex 1910		> 	
Thickness (mm)	 ↓ ↑ 	35									
Dimensions (mm)	k	1910 x 1180									
System	1	Wire Hange	r								
Weight	κ _g λ	16.0 kg/pc									
Colour & design	E	White	Vario De Granite	sign Colours	Green Marble	Соррен	r	Oak	Brass	Sandstone	Concrete
Sound absorption						125 0.40	250 1.60 *Values sl	500 2.40 hown are the	1000 2.70 average of the	2000 3.20 3 one third octav	4000 3.40 ve band values
Fire reaction	<u></u>	Euroclass A2	2-s1,d0 as p	er EN 1350	1 - 1						
Light reflectance		Up to 88%									
Humidity resistance	4	90%									
Cleanability		P	P.								
Sustainability		ECISCUELE WOOL									



Ceiling rafts are delivered in one piece making them quick and easy to install. Flexible design and adjustable to various heights using steel cables.



Floating Canopy Systems **MINERAL Sonic Line** (THERMATEX® Sonic Modern) Individual



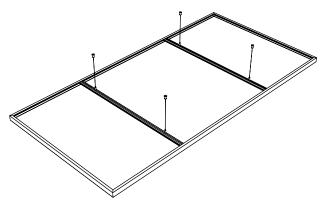
- MINERAL Sonic Line is a ceiling raft with an aluminium frame. The flexible suspension with fine, steel cables enables the height to be individually adjusted as required
- Available with a standard white laminate surface and can be customised in a variety of colours or bespoke printed motifs on request
- Aesthetically defines spaces in schools, offices leisure centres, retail spaces etc.

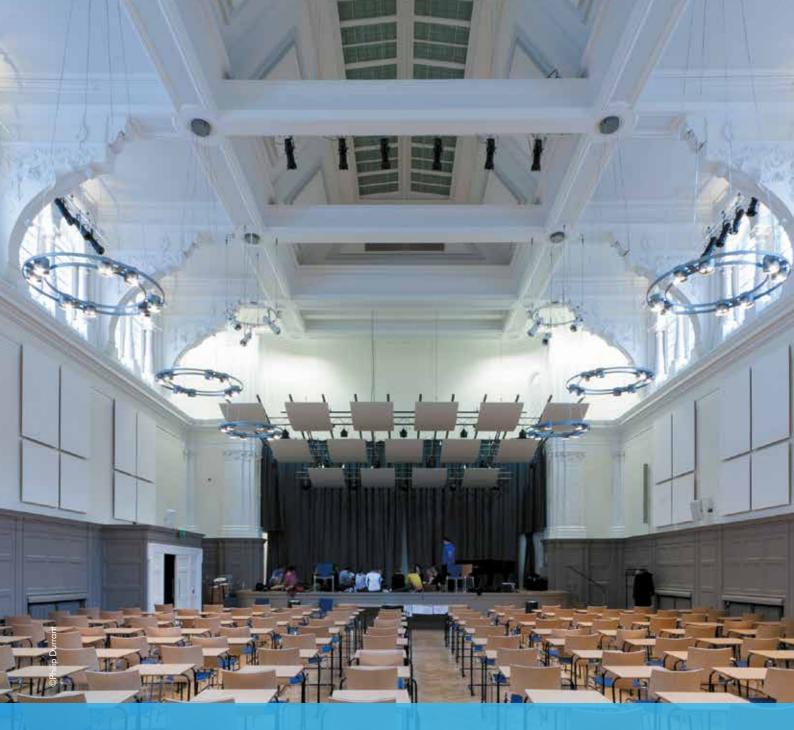
Floating Canopy Systems **MINERAL Sonic Line**

Individual

Thickness (mm)	<u>↓</u> 43
Dimensions (mm)	1200 x 600 1200 x 1200 1800 x 1200 2400 x 1200
System	Wire Hanger
Weight	1200 x 600: 5.0 kg/pc 1200 x 1200: 10.0 kg/pc 1800 x 1200: 15.0 kg/pc 2400 x 1200: 20.0 kg/pc
Colour & design	Frame: Anodised Aluminium, White, Colours
L	Vario Design Colours
	White Granite Steel Green Marble Copper Oak Brass Sandstone Concrete
	Motif: Custom Graphic Print
Sound absorption	EN ISO 354
	Frequency f (Hz) Equivalent Absorption Area Aobj* 125 250 500 1000 2000 4000
	1200 x 1200mm0.401.101.602.002.102.00Suspension height 193mm0.401.101.602.002.102.00
	2400 x 1200mm0.901.903.003.403.803.70Suspension height 193mm
	*Values shown are the average of the 3 one third octave band values
Fire reaction	Euroclass A2-s1,d0 as per EN 13501-1
Light reflectance	Up to 88%
Humidity resistance	90%
Cleanability	
Sustainability	

Ceiling rafts are delivered in one piece making them quick and easy to install. Flexible design and adjustable to various heights using steel cables.





Wall Systems **MINERAL Wallcoustic Element** (OPTIMA Canopy, OPTIMA L Canopy, TOPIQ[®] Line Element) Individual



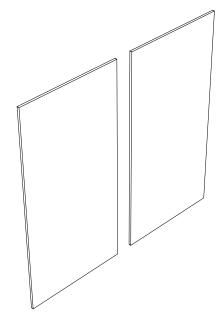
- MINERAL Wallcoustic Element is a frameless and jointless wall abosorber. It also benefits from a fully colour coated face and reverse laminate fleece
- The monolithic wall absorber offers excellent sound absorption properties and endless design possibilities for ambitious architects, who seek to raise the visual and acoustic quality of interior spaces
- The wall panel is delivered in one piece and is quick and easy to install using spiral anchors and wall brackets



Wall Systems MINERAL Wallcoustic Element

Individual

Thickness (mm)	40
Dimensions (mm) Additional sizes on request	Square1180 x 1180Square800 x 800Rectangle1180 x 580Rectangle1780 x 880Rectangle1780 x 1180
System	Spiral anchor Wall brackets
Weight Ka	6.0 kg/m²
Colour & design	White Granite Steel Green Marble Copper Oak Brass Sandstone Concrete
Sound absorption	EN ISO 354 Frequency f (Hz) Equivalent Absorption Area Aobj* Square: 1180 x 1180mm 0.40 1.20 1.90 1.90 1.90 1.80 x 1180mm 0.50 1.70 2.80 2.80 *Values shown are the average of the 3 one third octave band values
Fire reaction	Euroclass A2-s1,d0 as per EN 13501-1
Light reflectance	Up to 88%
Humidity resistance	90%
Cleanability	
Sustainability	





Wall Systems MINERAL Wallcoustic Line (THERMATEX® Line Modern) Individual



- MINERAL Wallcoustic Line is a pre-assembled aluminium framed wall absorber with a standard white, laminate surface finish. It can also be ordered in a variety of colours or customised printed motifs on request
- Customise and enhance the visual appearance and acoustic ambience in any space
- The wall panel is delivered in one piece and is quick and easy to install using eccentric screws and installation key



Wall Systems MINERAL Wallcoustic Line

Individual

Thickness (mm)	↓ ↑	43							
Dimensions (mm)	····	1200 x 600							
Additional sizes		1200 x 1200 1800 x 1200							
on request		2400 x 1200							
System	1	Eccentric bracket							
Weight	Kg	9.4 kg/m²							
Colour & design	P	Frame: Anodised Aluminium,	White, Colours						
		🔽 Vario Design	Colours						
		White Granite S Motif: Custom Graphic Print	iteel Green Marble	e Copper	0	αĸ	Brass	Sandstone	Concrete
Sound absorption		EN ISO 354							
Sound absorption		Frequency $f(Hz)$		125	250	500	1000	2000	4000
		Equivalent Absorption Area A Rectangle: 1200 x 600mm	obj*	0.20	0.60	1.00	0.90	0.80	0.90
		Square: 1200 x 1200mm Rectangle: 1800 x 1200mm		0.50 0.60	1.10 1.90	1.60 2.50	1.50 2.40	1.50 2.20	1.50 2.40
		Rectangle: 2400 x 1200mm		1.10	2.20	3.10	3.10	3.00	3.10
	_				*Values sh	own are the	average of the	3 one third octo	ve band values
Fire reaction	E	Euroclass A2-s1,d0 as per El	∖ 13501-1						
Light reflectance	7	Up to 88%							
Humidity resistance	\$	90%							
Cleanability		P							
Sustainability									
								\frown	
									\geq
				/			Detail: Ecce	entric bracke	ŀ
			/*						



Wall Systems **FABRIC Wallcoustic Line** (LINE Style) Individual



- FABRIC Wallcoustic Line is a fabric covered wall absorber with an elegant aluminium frame and can be easily customised using individual patterns or images. The aluminium frame is supplied with an all-round groove into which the printed fabric is inserted. The fabric covering can be easily removed and replaced with a new fabric design, without using any special tools
- FABRIC Wallcoustic Line 20: Lightweight profile for one-sided coverings in small sizes
- FABRIC Wallcoustic Line 27: Profile for all sizes with one-sided coverings
- FABRIC Wallcoustic Line 50: Profile for all sizes with one-sided coverings and a highly absorbing acoustic filling



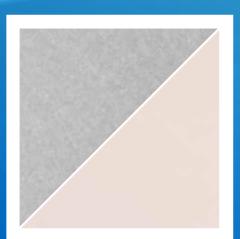
Wall Systems FABRIC Wallcoustic Line

Individual

Thickness (mm)	20	27		50						
Dimensions (mm)	600 × 600 1 200 × 600									
System	Wall bracket									
Weight K										
Colour & design	Frame: anodised aluminium, wi FABRIC Wallcoustic Line 20: FABRIC Wallcoustic Line 27: FABRIC Wallcoustic Line 50:	fabric, white or Custom fabric, white or Custom	Graphic Prin	it						
Sound absorption	EN ISO 354									
	Frequency f (Hz) Equivalent Absorption Area Aob	i* 125	250	500	1000	2000	4000			
	1200 x 1200mm (50mm thickne		0.90 *Values show	1.90	1.90	1.80	1.60	dualuas		
Humidity resistance	90%		Values snov	vii die life d	average of i	ne 5 one min		ia values		
Cleanability	2									
FABRIC Wallcoustic Line	Prof	ile cross-sections								
	37		45	50						
	Corr	ner connection		Detail fram	ne					



AMF THERMATEX® Alpha Colour



- AMF THERMATEX[®] Alpha Colour provides a modern appearance and is the optimal solution for spaces that require outstanding sound absorption. In addition to cream, black and silver, the acoustic range is also available in granite, steel, green marble, copper, oak, brass, sandstone and concrete Vario Design colours
- Excellent sound absorption (0.95 α_{w})
- Ideal for offices, restaurants, cinemas, classrooms and learning applications





AMF THERMATEX® ALPHA COLOUR

Edge details	Board
Additional edge details on request	
Thickness (mm)	19
Dimensions (mm) Additional sizes on request	600 x 600 1200 x 600 610 x 610 1220 x 610 625 x 625 1250 x 625
System	Exposed demountable - System C
Weight	3.3 kg / m²
Colour Colours Additional colours on request	Black Silver Cream Steel Green Marble Copper Oak Brass Sandstone Concrete
Sound absorption	EN ISO 354 $\alpha_w = 1.00$ as per EN ISO 11654 - Class A (Black) $\alpha_w = 0.95$ as per EN ISO 11654 - Class A (other colours)
	Frequency f(Hz) 125 250 500 1000 2000 4000 α _p Black 0.45 0.80 0.95 0.95 1.00 1.00
	Frequency f(Hz) 125 250 500 1000 2000 4000 α _p Other colours 0.50 0.80 0.90 0.90 1.00 1.00 NRC = 0.90 as per ASTM C 423
Sound attenuation	EN ISO 10848-2 $D_{nfw} = 28 dB as per EN ISO 717-1$ CAC = 29 dB as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R _w = 14 dB as per EN ISO 717-1
Fire reaction	Euroclass A2-s1, d0 as per EN 13501-1 RUS KM1 (G1, V1, D1, T1) as per 123-FZ
Thermal conductivity	λ = 0.040 W/mk as per EN 12667
Air permeability	PM1 (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	95% RH
Indoor air quality 😭	Image: Apple to the second
Cleanability	
Sustainability	BICSOLIBER WOOL BICSOLIBER WOOL BICSOLIBER WOOL Image: Comparison of the second secon

Options with this icon are available from our Vario Design range. Products may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit our website.

EXPERIENCE MORE POSSIBILITIES





AMF THERMATEX® Varioline

With AMF THERMATEX[®] Varioline, the individual design possibilities are almost limitless.

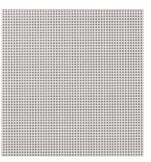
Whichever architectural look and feel you have in mind, you can choose from a selection of mineral tiles with wood, concrete or metal pattern surfaces to achieve the desired visual aesthetic.

Individual motif designs are also available to help customise and enhance the ambience of any space.

Choose from any of the following solutions - AMF THERMATEX[®] Varioline Motif, Varioline Metal, Varioline Wood, Varioline Symetra and Varioline Colour to meet the acoustic, aesthetic and fire performance needs of your project.

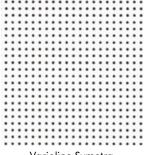


Varioline Motif



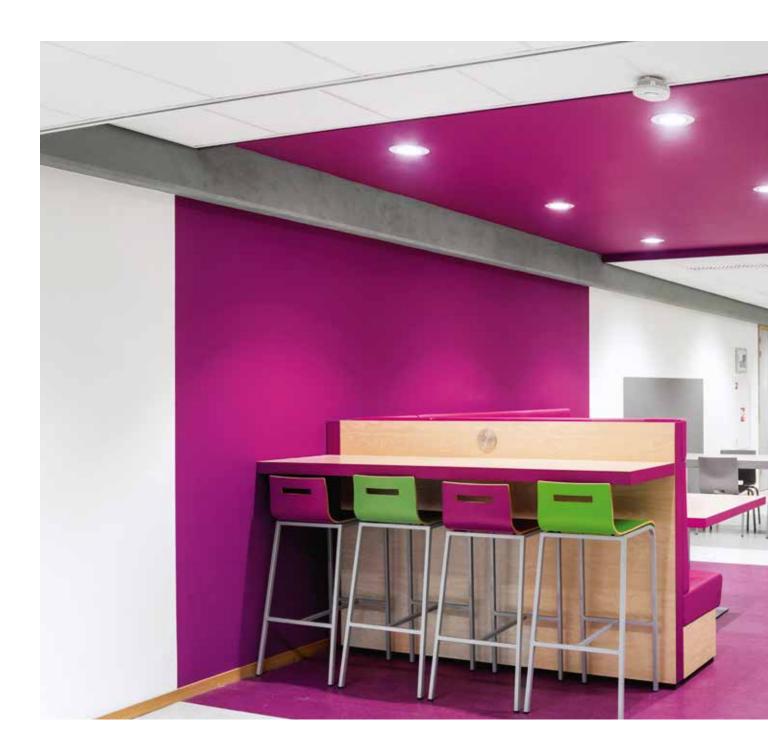
Varioline Metal





Varioline Wood

Smooth White Acoustic



THE SMOOTH WHITE ACOUSTIC RANGE HAS THE WIDEST CHOICE OF EDGES, MODULES AND ACOUSTIC OPTIONS.

Designed to provide flexibility and complete noise control for every space – whether it's high sound absorption, high sound attenuation or a balance of both. Thanks to the smooth white surface, these aesthetically pleasing ceilings also offer high levels of light reflectance and energy saving benefits.







DATASHEET AMF THERMATEX® Acoustic



- The laminated finish of AMF THERMATEX® Acoustic creates a smooth, white appearance and provides good levels of sound absorption and excellent sound attenuation
- Good sound absorption (0.65 (H) α_w)
- Excellent sound attenuation (40 dB; SL2)

- High sound attenuation (38 dB; Board, Tegular 24/90, Tegular 15/90, Vector, Finesse)
 Excellent light reflectance (88%)
- ISO 4
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

AMF THERMATEX® Acoustic

Edge details	Board	Tegular 24/90 P	Tegular 15/90 Ç		L2 Q	Vect Ŷ	or Ŷ	Fine Û	esse
on request		∞ 24			24			24	
Thickness (mm)	19	19 19 19 19				24	Ļ	1	9
Dimensions (mm)	600×600 625×625 1200×600 1250×625	625×625 625×625 1200×600 1500×300 625×625 1200×600 1200×600 1800×300 1200×600				625	600 x 600 625 x 625 1200 x 600 1250 x 625		
System	Exposed de	mountable - Sys	stem C	Semi-con planks, d ble - Syst Semi-con planks - E demounte System I.2 Semi-con planks - C demounte System F.	emounta- em 1,3 acealed Bandraster, able - 2 cealed Corridor, able -	Semi-concec tiles, demour System C	aled ntable -	Concealed demountab System A.2	ole -
Weight K	5.0 - 8.6 kg	J ∕ m²							
Colour	White								
Sound absorption	EN ISO 35	4			α_ =	0.65 (H) as	per EN IS	0 11654 - 0	Class C
<u>~0</u>	Frequency f (I			125	250	500	1000	2000	4000
	u _P Board, Tegular	Tegular 24/90, 15/90, Finesse,	SL2	0.50	0.45	0.60	0.85	0.95	0.95
	$\alpha_{\rm P}$ Vector NRC = 0.7	0 as per ASTM	C 423	0.45	0.40	0.60	0.80	0.90	1.00
Sound attenuation	Tegular 15/	848-2 B (Board, Tegula 90, Vector, Fines B (SL2) as per Et	se) as per EN IS(O 717-1	CAC = Vector,	39 dB (Board Finesse) as pe	d, Tegular : er ASTM E	24/90, Tegu 413-10	ular 15/90,
Sound reduction	EN ISO 10 R _w = 22 dB	140-2 as per EN ISO	717-1						
Fire reaction		2-s1, d0 as pe per ASTM E 84							
Light reflectance	88%								
Thermal conductivity	λ = 0.060	W/mk as per l	EN 12667						
Air permeability	PM1 (≤ 30	m³/hm²) as pei	DIN 18177						
Humidity resistance	95% RH								
Clean room	ISO 4 as p	er EN ISO 1464	14-1						
Indoor air quality		E1	R AIR COMAN COMMENT CONTINUE CONTINUE COMPENT						
Cleanability	<u>a</u>	2							
Sustainability	9% EN ISO 14021 35 - 36.9%	EN 150 14025	SOLUBLE WOOL						



DATASHEET AMF THERMATEX® dB Acoustic



- AMF THERMATEX[®] dB Acoustic is the ideal solution for spaces requiring excellent sound attenuation and good sound absorption. It provides a simple yet timeless design finish to any space
- Good sound absorption (0.65 (H) α_{w})
- Excellent sound attenuation (24mm thickness: 41dB 30mm thickness: 43dB)

- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, meeting rooms and learning applications or corridors

AMF THERMATEX® dB Acoustic

Edge details Additional edge details on request		Board	Tegulo 	ur 24/90		Tegular 15/90					
Thickness (mm)		24, 30	24								
Dimensions (mm)		600 x 600	600	x 600			600	x 600			
System	1	Exposed demountable - System C									
Weight		8.6 - 10.6 kg / m²									
Colour		White	White								
Sound absorption		EN ISO 354		α,=	0.65 (H	l) as per l	EN ISO 1	1654 - Cl	ass C		
	<u></u>	Frequency f (Hz)		125	250	500	1000	2000	4000		
		α _P Board (24mm), Tegular 24/90,	Tegular 15/90	0.40	0.45	0.60	0.80	0.95	0.95		
		α_{P} Board (30mm)		0.35	0.40	0.65	0.85	0.90	0.95		
		NRC = 0.70 as per ASTM C 423									
Sound attenuation		EN ISO 10848-2 D _{n.f.w} = 41 dB (24mm) as per EN ISO CAC = 43 dB (24mm) as per ASTM		Dn,f	= 43 di	3 (30mm)	as per EN	n ISO 717	-1		
Sound reduction	¥.	EN ISO 10140-2 R _w = 24 dB (24mm) as per EN ISC) 717-1	Rw	= 25 dB	(30mm) c	1s per EN	ISO 717	-]		
Fire reaction	E	Euroclass A2-s1, d0 as per EN 13 Class A as per ASTM E 84	3501-1								
Light reflectance		88%									
Thermal conductivity	A	λ = 0.075 W/mk as per EN 126	67								
Air permeability	TIT	PM1 (≤ 30 m³/hm²) as per DIN 1	8177								
Humidity resistance	\$ \$	95% RH									
Clean room	*	ISO 4 as per EN ISO 14644-1									
Indoor air quality	+										
Cleanability		P P.									
Sustainability		Стород на ст	^{2016510N C(40,6} 2016510N C(40,6) 2016510N C(40,6) 2016110N C	www.blauer	-engel.de/uz	132					



DATASHEET AMF THERMATEX® Alpha HD 19mm



- AMF THERMATEX[®] Alpha HD 19mm offers a modern, white appearance and is the optimal solution for spaces that need a combination of excellent sound absorption and good sound attenuation
- Excellent sound absorption (0.90 a_w)
- Good sound attenuation (34 dB)

- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and corridors

AMF THERMATEX® Alpha HD 19mm

Edge details	Board	Tegular 24/90	Tegular 15	/90	SL2			Finesse	
Additional edge details on request		∞ ⁺ 24	- 15						L
Thickness (mm)	19	19	19		19			19	
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 600 x 600 1350 x 300 625 x 625 625 x 625 1350 x 600 675 x 675 675 x 675 1500 x 300 1200 x 300 1200 x 300 1800 x 300 1200 x 600 1200 x 600 2000 x 300 1250 x 625 1250 x 625 1350 x 300 1800 x 600 1350 x 300 1800 x 600 1800 x 600 1350 x 600 1800 x 600				00 00 00	600 × 600 625 × 625 1200 × 600 1250 × 625		
System	Exposed dem System C	ountable -	Exposed, demo System C Exposed - Banı demountable - Exposed - Corr demountable -	draster, System I.3 idor.	Semi-conceale planks, demour System 1.3 Semi-conceale Bandraster, der - System 1.2 Semi-conceale - Corridor, dem - System F.2	ntable - d planks - mountable d planks	Concealed System A.2	l,demountab 2 / A.3	le -
Weight	5.2 kg / m ²								
Colour	White								
Sound absorption	EN ISO 354			10.5			per EN ISC		
	Frequency f (H α _P			125 0.50	250 0.70	500 0.80	1000 0.90	2000 1.00	4000
Sound attenuation	EN ISO 108	5 as per ASTM (48-2 B as per EN ISO			CAC = 35	dB as per	ASTM E 41	3-10	
Sound reduction	EN ISO 101 Rw = 17 dB	40-2 as per EN ISO	717-1						
Fire reaction		2-s1, d0 as pe							
Light reflectance	88%								
Thermal conductivity	λ = 0.060	W/mk as per	EN 12667						
Air permeability	PM1 (≤ 30	m³/hm²) as pe	r DIN 18177						
Humidity resistance	95% RH								
Clean room	ISO 4 as pe	er EN ISO 1464	14-1						
Indoor air quality		E1	BE AIR COLLER CO						
Cleanability	<u></u>	P.							
Sustainability	ENISO 14021 49.1%	EN ISO 14025			CERTIFIED cradle to cradle ssouzz	www.blauer-e	ngel.de/uz132)	



DATASHEET AMF THERMATEX® Alpha HD 30mm



- AMF THERMATEX[®] Alpha HD 30mm offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption and sound attenuation
- Excellent sound absorption (0.90 α_w)
- Excellent sound attenuation (40 dB)

- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

AMF THERMATEX® Alpha HD 30mm

Edge details	Board	Tegular 24/90	Tegular 15 A	/90	SL2	2	f	Finesse			
Additional edge details on request									—		
Thickness (mm)	30	30	30		30)		30			
Dimensions (mm)	600 × 600 625 × 625 675 × 675 1200 × 600 1250 × 625	625 x 625 625 x 625 625 x 605 1350 x 600 675 x 675 675 x 675 675 x 675 1500 x 300 1200 x 600 1200 x 600 1200 x 300 1800 x 300						600×600 625×625 1200×600 1250×625			
System	Exposed dem System C	Exposed demountable - System CExposed, demountable - System CSemi-concealed planks, demountable - System I.3Concealed, demoun System A.2 / A.3Exposed - Bandraster, demountable - System I.3Semi-concealed planks - Bandraster, demountable - System I.2Semi-concealed planks - Bandraster, demountable - System I.2Semi-concealed planks - Bandraster, demountable - System I.2									
Weight	8.2 kg / m²										
Colour	White										
Sound absorption	EN ISO 35					= 0.90 as p					
	Frequency f (H α _P	Hz)		125 0.55	250 0.70	500 0.85	1000 1.00	2000 1.00	4000		
		as per ASTM (C 423								
Sound attenuation	EN ISO 108 D _{n,f,w} = 40 d	B as per EN ISO	717-1		CAC = 41	dB as per	ASTM E 41	3-10			
Sound reduction	EN ISO 101 R _w = 22 dB	40-2 as per EN ISO	717-1								
Fire reaction	Euroclass A	2-s1, d0 as per	r EN 13501-1								
Light reflectance	88%										
Thermal conductivity	λ = 0.060	W/mk as per l	EN 12667								
Air permeability	PM1 (≤ 30	m³/hm²) as per	DIN 18177								
Humidity resistance	95% RH										
Clean room	ISO 4 as po	er EN ISO 1464	14-1								
Indoor air quality	A+	E1 13964	RAR CONTRACT Contraction Councilian Councili								
Cleanability	P	P.									
Sustainability	2% EN ISO 14021 49.9%	EN ISO 14025		N CCASS 1 Son N DNOTING	CIERTIFIC Cradle to cradle BROWZE	www.blauer-e	ngel.de/uz132				



DATASHEET AMF THERMATEX® Alpha HD 35mm



- AMF THERMATEX[®] Alpha HD 35mm offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption and sound attenuation
- Excellent sound absorption (0.90 α_w)

- Excellent sound attenuation (42 dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

AMF THERMATEX® Alpha HD 35mm

Edge details		Board	Tegular 24/90		Tegular 15/9	0		SL2	
Additional edge details on request									
Thickness (mm)	<u>↓</u>	35	35		35		35		
Dimensions (mm)	<mark>()</mark>	600 × 600 625 × 625 1200 × 600 1250 × 625	600 x 600 625 x 625 1200 x 600 1250 x 625		600 x 600 625 x 625 1200 x 600 1250 x 625 1350 x 300 1350 x 600		1350 × 300 1350 × 600 1500 × 300 1800 × 300 2000 × 300		
System	1	Exposed demountable	Exposed demountable - System C Exposed demountable - System C Exposed - Bandraster, demounta- ble - System I.3 Exposed - Corridor, demountable -System F.3 Semi-conceale ter, demountable -System F.3						
Weight	Ку	9.5 kg / m²							
Colour	<i>;</i>	White							
Sound absorption		EN ISO 354			α,	= 0.90 as	per EN ISC	D 11654 - (Class A
	20)	Frequency f (Hz)		125	250	500	1000	2000	4000
		α _P NRC = 0.85 as per	ASTM C 423	0.40	0.65	0.85	1.00	1.00	1.00
Sound attenuation		EN ISO 10848-2 D _{n.f.w} = 42 dB as per			CAC = 44	I dB as per	ASTM F 4	13-10	
Sound reduction	Ť	EN ISO 10140-2 R _w = 25 dB as per E			0,10				
Fire reaction	<u></u>		0 as per EN 13501-1						
Light reflectance		88%							
Thermal conductivity	J	λ = 0.060 W/mk	as per EN 12667						
Air permeability	<u>रीरि</u>	PM1 (≤ 30 m³/hm²	²) as per DIN 18177						
Humidity resistance	* *	95% RH							
Clean room	*	ISO 4 as per EN IS	O 14644-1						
Indoor air quality	_	Image: Constraint of the second sec	Contracting Contra						
Cleanability		P.							
Sustainability		60.4%	- (小) 『M		radie to cradie	www.blauer-e	engel.de/uz132	2	



DATASHEET AMF THERMATEX® Alpha One



- AMF THERMATEX[®] Alpha One offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption
- Excellent sound absorption (1.00 α_w)

- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

AMF THERMATEX® Alpha One

Edge details Additional edge details on request	Board	Tegular 24	Tegular 15/90				
Thickness (mm)	24	24	24				
Dimensions (mm)	600 x 600 625 x 625 1200 x 600	625 x 625 625 x 625 625 x 625					
System	Exposed demountable - System C						
Weight	4.0 kg / m ²						
Colour	White						
Sound absorption	EN ISO 354		α _w = 1.00 a	as per EN ISC	D 11654 - (lass A	
	Frequency f (Hz)	125	250 500	1000	2000	4000	
	α _p	0.55	0.85 1.00	0.95	1.00	1.00	
	NRC = 1.00 as per ASTM C 423						
Sound attenuation	EN ISO 10848-2 D _{n.f.w} = 29 dB as per EN ISO 717-7						
Sound reduction	EN ISO 10140-2 Rw = 17 dB as per EN ISO 717-1	EN ISO 10140-2					
Fire reaction	Euroclass A2-s1, d0 as per EN 1 Class A as per ASTM E 84	Euroclass A2-s1, d0 as per EN 13501-1					
Light reflectance	88%						
Thermal conductivity	λ = 0.040 W/mk as per EN 12	λ = 0.040 W/mk as per EN 12667					
Air permeability	PM1 (≤ 30 m³/hm²) as per DIN	PM1 (≤ 30 m³/hm²) as per DIN 18177					
Humidity resistance	95% RH	95% RH					
Clean room	ISO 4 as per EN ISO 14644-1	ISO 4 as per EN ISO 14644-1					
Indoor air quality		7					
Cleanability	P P.						
Sustainability	Image: Solution of the	a shot shot shot shot shot shot shot shot	ocradle	er-engel.de/uz13	2		

AMF THERMATEX® Alpha

- AMF THERMATEX[®] Alpha offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption
- Excellent sound absorption (0.95 $\alpha_{\rm w}$
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications





AMF THERMATEX® ALPHA

_							
Edge details	- Board	Tegular 24/90		Tegular 1	15/90		
Additional edge details on request							
Thickness (mm)	⊻ 19	19		19			
Dimensions (mm)	600 × 600 625 × 625 1200 × 600	600 x 600 625 x 625 1200 x 600		600 x 6 625 x 6 1200 x 6	525		
on request	1250 x 625						
System	Exposed demountable - System C						
Weight	3.3 kg ∕ m²						
Colour	White						
Sound absorption							
	$\alpha_{w} = 0.95$ as per EN ISO 11654 Frequency $f(Hz)$	- Class A 125	250	500 1	1000	2000	4000
	α _p	0.50				1.00	1.00
	NRC = 0.90 as per ASTM C 423						
Sound attenuation	EN ISO 10848-2 D _{n,f,w} = 28 dB as per EN ISO 717	<i>′</i> -1	CAC = 29 c	IB as per A	STM E 41	3-10	
Sound reduction	EN ISO 10140-2 R _w = 14 dB as per EN ISO 717-1						
Fire reaction	Euroclass A2-s1, d0 as per EN 1 Class A as per ASTM E 84	13501-1	RUS KM1 (G1, V1, D	1, T1) as	per 123	-FZ
Light reflectance	88%						
Thermal conductivity	λ = 0.040 W/mk as per EN 12	2667					
Air permeability	PM1 (≤ 30 m³/hm²) as per DIN	18177					
Humidity resistance	95% RH						
Clean room	ISO 4 as per EN ISO 14644-1						
Indoor air quality	EN 13964						
Cleanability	Z Z						
Sustainability	EN ISO 14021 43%		www.blauer-er	ngel.de/uz132			



DATASHEET Antaris

- Antaris is a white, laminated mineral tile and offers Class A sound absorption. Antaris provides fire protection and a hygienic ceiling solution
- Excellent sound absorption (0.90 α_w)



- High light reflectance (86%)
- ISO 5
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

Datasheet Antaris

Edge details Additional edge details on request		Tegular 24/90	Tegular 15/90			
Thickness (mm)	★ 15	15	15			
Dimensions (mm) Additional sizes on request	600 x 600 675 x 675 1200 x 600	600 x 600600 x 600675 x 675675 x 6751200 x 6001200 x 600				
System	Exposed demountable - System C					
Weight	2.9 kg / m ²					
Colour	White					
Sound absorption	EN ISO 354	α _w = 0.90	as per EN ISO 11654 - Class A			
	Frequency f (Hz)	125 250 500	1000 2000 4000			
	α _p	0.50 0.80 0.85	0.85 1.00 1.00			
	NRC = 0.90 as per ASTM C 423					
Sound attenuation	EN ISO 10848-2 D _{n.f.w} = 28 dB as per EN ISO 717-1	CAC = 29 de	as per ASTM E 413-10			
Sound reduction	EN ISO 10140-2 Rw = 13 dB as per EN ISO 717-1					
Fire reaction	Euroclass A2-s1, d0 as per EN 135 Class A as per ASTM E 84	501-1				
Light reflectance	86%					
Thermal conductivity	λ = 0.040 W/mk as per EN 1266	57				
Humidity resistance	95% RH					
Clean room	ISO 5 as per EN ISO 14644-1					
Indoor air quality						
Cleanability	P P.					
Sustainability	Image: Construction Image: Construction	www.blauer-engel.de/uz1	32			



AMF THERMATEX® Thermofon



- AMF THERMATEX[®] Thermofon features a smooth, white laminated finish and modern design visual. It provides high sound absorption for enhanced acoustic comfort
- High sound absorption (0.80 (H) α_{w})
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications





AMF THERMATEX® THERMOFON

Edge details	Board	Tegular 24/90			Tegular	- 15/90	
Additional edge details on request		© 24					
Thickness (mm)	<u> _24_ </u> ↓ ↑	15			15	-	
Dimensions (mm) Additional sizes on request	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600			600 x 600 625 x 625 1200 x 600		
System	Exposed demountable - System C						
Weight	2.9 kg / m²						
Colour	White						
Sound absorption	EN ISO 354	- Class B 125 0.55	250 0.75	500 0.75	1000 0.80	2000 0.95	4000 1.00
Sound attenuation	NRC = 0.85 as per ASTM C 423 EN ISO 10848-2 D _{nfw} = 28 dB as per EN ISO 717-1	SO 10848-2					
Sound reduction	EN ISO 10140-2 R _w = 13 dB as per EN ISO 717-1						
Fire reaction	Euroclass A2-s 1, d0 as per EN 1350 Class A as per ASTM E 84	01-1 RUS	5 KM1 (G1	I, V1, D1	l , T1) as p	oer 123-FZ	
Light reflectance	88%						
Thermal conductivity	λ = 0.040 W/mk as per EN 12667	7					
Humidity resistance	95% RH						
Clean room	ISO 4 as per EN ISO 14644-1						
Indoor air quality	A+ E1 IACG						
Cleanability	P P.						
Sustainability	EN ISO 14021 EN ISO 14025 BOSCILIBLE WOOL 42% EX ISO 14025 EX ISO 24025	onesion crass	.blauer-engel.d	le/uz132			



AMF TOPIQ[®] Prime



- Excellent sound absorption (0.95 α_w)
- Excellent light reflectance (88%)
- ISO 5
- Ideal for offices, retail, classrooms, learning applications and underground garages





AMF TOPIQ[®] PRIME

Edge details	 Board	Tegular 24/90		Tegular 15/	90	
Additional edge details on request						
Thickness (mm)	15	15		15		
Dimensions (mm) Additional sizes on request	600 × 600 625 × 625 1200 × 600 1250 × 625	600 x 600 625 x 625 1200 x 600		600 x 600 625 x 625 1200 x 600		
System	Exposed demountable - Syste	em C				
Weight	2.1 kg / m ²					
Colour	White					
Sound absorption	EN ISO 354 $\alpha_{w} = 0.95$ as per EN ISO 116 Frequency $f(Hz)$ α_{p}	554 - Class A 12: 0.5		500 100 0.95 0.90		4000 1.00
Sound attenuation	NRC = 0.90 as per ASTM C EN ISO 10848-2 D _{n,f,w} = 24 dB as per EN ISO		CAC = 24 d	B as per ASTM	E 413-10	
Sound reduction	EN ISO 10140-2 R _w = 13 dB as per EN ISO 71	17-1				
Fire reaction	Euroclass A1 as per EN 1350 Class A as per ASTM E 84	01-1	RUS KM2 (G1, V2, D1,	[1) as per 123	3-FZ
Light reflectance	88%					
Humidity resistance	100% RH					
Clean room	ISO 5 as per EN ISO 14644	-1				
Indoor air quality		Recording Recording IAC				
Cleanability	P.					
Sustainability	Image: Second	www.blauer-	engel.de/uz132			



AMF TOPIQ[®] Efficient Pro



- AMF TOPIQ[®] Efficient Pro is a very light stone wool panel with a modern, smooth surface.
- Excellent sound absorption (1.00 α_w)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and underground garages





AMF TOPIQ[®] EFFICIENT PRO



Edge details	Board	Tegular 24/	90		Tegulo	ar 15/90		
Additional edge details on request						Ĵ 5		
Thickness (mm)	20	20			20			
Dimensions (mm) Additional sizes on request	600 × 600 625 × 625 1200 × 600	600 x 600 625 x 625 1200 x 600			625	x 600 x 625 x 600		
System	Exposed demountable - Syste	em C						
Weight	∑ 2.8 kg ∕ m²							
Colour	White							
Sound absorption	EN ISO 354 $\alpha_w = 1.00$ as per EN ISO 116 Frequency f (Hz) α_p NRC = 0.95 as per ASTM C		125 0.45	250 0.90	500 1.00	1000 0.95	2000 1.00	4000 1.00
Sound attenuation	EN ISO 10848-2 D _{n,f,w} = 25 dB as per EN ISO	717-1	С	AC = 25 (B as per	ASTM E 4	113-10	
Sound reduction	EN ISO 10140-2 R _w = 15 dB as per EN ISO 71	17-1						
Fire reaction	Euroclass A1 as per EN 1350	01-1	R	US KM2	(G1, V2	, D1, T1)	as per 123	3-FZ
Light reflectance	88%							
Humidity resistance	100% RH							
Clean room	ISO 4 as per EN ISO 14644	1-1						
Indoor air quality		GROWER PRODUCT						
Cleanability	2 2.	Sun charge &						
Sustainability	BIOSOLUBE E WOOL BIOSOLUB	www.	blauer-engel.c	1e /uz132				

Healthcare & Hygiene







UNDER CONSTANT SCRUTINY AND DEMANDING THE HIGHEST LEVELS OF COMFORT AND CLEANLINESS, HEALTHCARE SETTINGS GO THROUGH CONTINUAL CHANGES TO ENSURE THE BEST POSSIBLE ENVIRONMENT FOR PATIENTS AND HEALTHCARE PROFESSIONALS.

Reaching the essential criteria for individual risk zones, our easy-to-clean products deliver a strong acoustic performance, with impressive sound-absorbing and sound-blocking properties to help create privacy, as well as bring in daylight to reduce in-patient time.



ARMSTRONG BIOGUARD ACOUSTIC OP



- Armstrong BIOGUARD ACOUSTIC OP is suitable for demanding healthcare applications requiring Class A sound absorption and stringent cleaning methods: dry steam and damp cloth using standard detergents. It does not contribute to the growth of MRSA
- Excellent sound absorption (0.95 α_w)
- Good light reflectance (85%)
- ISO 3
- Ideal for healthcare environments with severe risk of infection





ARMSTRONG BIOGUARD ACOUSTIC OP

Edge details		Board			Tegular 2	4		Tegulo	ar 15/90		
Additional edge details on request					<u></u>			8			
Thickness (mm)	↓ ↑	20			20			20			
Dimensions (mm) Additional sizes on request	k i>	600 x 600 1200 x 600			600 x 6 1200 x 6				x 600 x 600		
System		Exposed den	nountable - Sy	ystem C							
Weight	Kg	3.3 kg / m²									
Colour	P	White									
Sound absorption		EN ISO 354 α _w = 0.95 as Frequency f α _p NRC = 0.95	per EN ISO		Class A	125 0.55	250 0.85	500 0.95	1000 0.90	2000 1.00	4000 1.00
Sound attenuation		EN ISO 108 D _{n,f,w} = 25 df	48-2 3 as per EN IS	SO 717-1			CAC = 25	dB as pe	er ASTM E	413-10	
Fire reaction	ক্ত	Euroclass A2 Class A as p	2-s1, d0 as p per ASTM E 8		3501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance	7	85%									
Thermal conductivity	A	$\lambda = 0.040 V$	V/mk as pe	r EN 126	67						
Humidity resistance	\$ \$	95% RH									
Clean room	*	ISO 3 as per	r EN ISO 146	644-1							
Indoor air quality		A+	E1	CORP AR C	ROD						
Cleanability		P	P.			A	*		8		
Sustainability		6 % EN 150 14021 70%	EN ISO 14025		\mathbb{D}						



ARMSTRONG BIOGUARD ACOUSTIC



- Armstrong BIOGUARD ACOUSTIC combines excellent cleanability, resistance to disinfectants and sound absorption. Along with its antimicrobial performance, it is an ideal solution for healthcare environments
- Good sound absorption (0.60(H) $\alpha_{\rm w})$ and sound attenuation (36 dB)
- Good light reflectance (85%)
- ISO 4
- Ideal for healthcare environments with average or severe risk of infection





ARMSTRONG BIOGUARD ACOUSTIC

Edge details		Board			Tegular 24			Tegulo	ar 15			
Additional edge details on request					 ∞24	I						
Thickness (mm)		17			17			17				
Dimensions (mm) Additional sizes on request		600 x 600 1200 x 600			600 x 600 1200 x 600				x 600 x 600			
System	E	Exposed dem	ountable - Sy	ystem C								
Weight		4.5 kg / m²										
Colour	<u>۱</u>	White										
Sound absorption		EN ISO 354 α _w = 0.60(H Frequency f(α _p NRC = 0.60	Hz)		4 - Class C	125 0.35	250 0.40	500 0.50	1000 0.70	2000 0.85	4000 0.90	
Sound attenuation	200	EN ISO 1084 D _{n,f,w} = 36 dB		SO 717-1			CAC = 37	dB as pe	r ASTM E	413-10		
Sound reduction		EN ISO 1014 R _w = 18 dB a		717-1								
Fire reaction	E Star	Euroclass A2	- s1, d0 as pe	er EN 133	501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	B-FZ	
Light reflectance	^	85%										
Thermal conductivity	}	\ = 0.060 W	/mk as per	EN 1260	67							
Humidity resistance	•••	95% RH										
Clean room	¥	SO 4 as per	en ISO 146	44-1								
Indoor air quality	+	A+	EN 13964	RANGE CONTRACT	RODUC							
Cleanability		Z	P.				*<+		3	~		
Sustainability		<mark>ек ISO 14021</mark> 42%	EN ISO 14025		\mathbb{E}							



ARMSTRONG BIOGUARD PLAIN 15mm



- Armstrong BIOGUARD PLAIN combines excellent cleanability and resistance to disinfectants. Along with its antimicrobial performance, it is an ideal solution for healthcare environments
- Good sound attenuation (35 dB)
- Excellent light reflectance (87%)
- ISO 5
- Ideal for healthcare environments with average or severe risk of infection





ARMSTRONG BIOGUARD PLAIN 15mm

Edge details	Board	Tegular 24			Tegula	r 15		
Additional edge details on request	Û 	 ∞ ⁺ /_24						
Thickness (mm)	15	15			15			
Dimensions (mm) Additional sizes on request	600 × 600 1200 × 600	600 x 600 1200 x 600				x 600 x 600		
System	Exposed demountable - System C	2						
Weight K	3.5 - 3.6 kg / m²							
Colour	White							
Sound absorption	EN ISO 354 α _w = 0.20(L) as per EN ISO 116 Frequency f (Hz)	54 - Class E	105	250	500	1000	2000	4000
	α_{p} NRC = 0.20 as per ASTM C 423	}	125 0.40	250 0.25	500 0.15	1000 0.15	2000 0.20	4000 0.30
Sound attenuation	EN ISO 10848-2 D _{n.f.w} = 35 dB as per EN ISO 717	7-1		CAC = 35	dB as pe	r ASTM E	413-10	
Sound reduction	EN ISO 10140-2 R _w = 19 dB as per EN ISO 717-1							
Fire reaction	Euroclass A2-s1, d0 as per EN	13501-1		RUS KM1	(G1, V1,	, D1, T1)	as per 123	8-FZ
Light reflectance	87 %							
Thermal conductivity	λ = 0.060 W/mk as per EN 12	2667						
Humidity resistance	95% RH							
Clean room	ISO 5 as per EN ISO 14644-1							
Indoor air quality								
Cleanability			+					
Sustainability	8 8							



ARMSTRONG SANIGUARD



- Armstrong SANIGUARD fulfils all hygienic requirements for healthcare applications and does not contribute to the growth of MRSA. It offers a smooth laminated finish and Class A sound absorption
- Excellent sound absorption (0.95 α_w)
- Good light reflectance (85%)
- ISO 5
- Ideal for healthcare environments with average risk of infection





ARMSTRONG SANIGUARD

Edge details		Board	Tegular 24			Tegula	ır 15/90		
Additional edge details on request			<u> </u>						
Thickness (mm)	↓ ↑	15	15			15			
Dimensions (mm) Additional sizes on request	k i)	600 x 600 1200 x 600	600 x 600			600	x 600		
System		Exposed demountable - System C							
Weight	Kg	2.5 kg / m²							
Colour	P	White							
Sound absorption		EN ISO 354 $\alpha_w = 0.95$ as per EN ISO 11654 Frequency $f(Hz)$ α_p NRC = 0.90 as per ASTM C 423		125 0.50	250 0.80	500 0.95	1000 0.85	2000 0.95	4000 1.00
Sound attenuation		EN ISO 10848-2 D _{n,f,w} = 25 dB as per EN ISO 717	-1		CAC = 25	dB as pe	r ASTM E	413-10	
Fire reaction	ক্ত	Euroclass A2-s1, d0 as per EN	13501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance		85%							
Thermal conductivity	ł	λ = 0.040 W/mk as per EN 12	667						
Humidity resistance	44	95% RH							
Clean room	*	ISO 5 as per EN ISO 14644-1							
Indoor air quality	+	A* A B C EN 13964	CG						
Cleanability		2 2.							
Sustainability		66%							



AMF THERMATEX® Aquatec



- AMF THERMATEX[®] Aquatec is the optimal solution for high humidity areas of up to 100% RH. It offers excellent sound absorption, and is suitable for high pressure water cleaning. Its high-quality design makes it the ideal solution for hygiene and healthcare environments
- Excellent sound absorption (0.90 α_w)
- Excellent light reflectance (88%)
- ISO 3
- Ideal for healthcare environments, laboratories, treatment rooms, locker rooms or shower areas



AMF

AMF THERMATEX® AQUATEC

Edge details	Board	Tegular 24/90	Tegular 15/90	Finesse					
Additional edge details	Ŷ	Ŷ	Ŷ	Ŷ					
on request					10	H			
Thickness (mm)	19	19	19	19					
Dimensions (mm)	600 x 600		600 x 600	600 x 6					
Additional sizes on request	625 x 625	625 x 625	625 x 625	625 x 6	020				
System	Exposed d	emountable - Syste	m C	Concec	ıled, demo	ountable -	System A.	2 / A.3	
Weight	5.2 kg / n	2							
Colour	White								
Sound absorption		54 as per EN ISO 116	54 - Class A						
	Frequency		54 - GIU35 A	125	250	500	1000	2000	4000
	$\alpha_{_{P}}$			0.60	0.70	0.85	0.90	1.00	1.00
		o as per ASTM C	423						
Sound attenuation	EN ISO 10 D _{n,f,w} = 29)848-2 dB as per EN ISO	717-1	CAC	= 29 dB	as per AS	TM E 413-	10	
Sound reduction	EN ISO 10 R _w = 16 di)140-2 3 as per EN ISO 71	7-1						
Fire reaction		\2-s1, d0 as per E s per ASTM E 84	IN 13501-1	RUS	KM1 (G	1, V1, D1	, T1) as p	er 123-FZ	
Light reflectance	88%								
Thermal conductivity	λ = 0.060	W/mk as per EN	1 12667						
Air permeability	₹	D m³∕hm²) as per D	DIN 18177						
Humidity resistance	100% RH	I							
Clean room	ISO 3 as	per EN ISO 14644	- 1						
Indoor air quality		EN 13964	Security Sec						
Cleanability	P								
Sustainability	2% EN ISO 14021 35%	EN ISO 14025	OLUBLE WOOL 7272008 Annex G WWW.bla	uer-engel.de/	uz132				

AMF THERMATEX® Aquatec Hygena

6)

- AMF THERMATEX[®] Aquatec Hygena is the ideal solution for high humidity areas of up to 100% RH. It offers excellent sound absorption, and its washable, high quality design makes it the ideal solution for hygiene and healthcare environments. The surface is washable and anti-microbial (resistant to the growth of germs, bacteria and fungi)
- Excellent sound absorption (0.90 α_w)
- Excellent light reflectance (88%)
- ISO 3
- Ideal for healthcare environments, laboratories, treatment rooms, intensive care units, locker rooms or shower areas



AMF THERMATEX® AQUATEC HYGENA

P. 1. 1. 1. 1.									
Edge details		Board							
Additional edge details on request									
Thickness (mm)	↓ ↑	19							
Dimensions (mm)	····+···>	600 x 600 625 x 625							
Additional sizes on request		023 X 023							
System	1	Exposed demountable - System C							
Weight		5.2 kg / m²							
Colour		White							
Sound absorption		EN ISO 354 α = 0.90 as per EN ISO 11654 - Cl a	ass A						
		Frequency f (Hz)	433 A	125	250	500	1000	2000	4000
		α _p		0.60	0.70	0.85	0.90	1.00	1.00
		NRC = 0.90 as per ASTM C 423							
Sound attenuation		EN ISO 10848-2 D _{n.f.w} = 29 dB as per EN ISO 717-1			CAC = 29	dB as pe	r ASTM E	413-10	
Sound reduction	¥	EN ISO 10140-2 R _w = 16 dB as per EN ISO 717-1							
Fire reaction	E	Euroclass A2-s1, d0 as per EN 1350 Class A as per ASTM E 84)] -]		RUS KM1	(G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance		88%							
Thermal conductivity	8	λ = 0.060 W/mk as per EN 12667	,						
Air permeability	TIT	PM1 (≤ 30 m³/hm²) as per DIN 1817	77						
Humidity resistance	\$ \$	100% RH							
Clean room	*	ISO 3 as per EN ISO 14644-1							
Indoor air quality	+	A+ E1 IACG							
Cleanability			N/L	ð					
Sustainability		EX ISO 14021 35%							



AMF THERMATEX® Thermaclean



- AMF THERMATEX[®] Thermaclean combines excellent cleanability with good resistance to germs and fungi. It has a laminated finish with a white vinyl foil, that ensures a timeless look
- Good sound attenuation (34 dB)
- ISO 4
- Ideal for healthcare environments, laboratories, treatment rooms, intensive care units





AMF THERMATEX® THERMACLEAN

Edge details		Board									
Additional edge details on request											
Thickness (mm)	<u>↓</u>	15									
Dimensions (mm)	·····	600 x 600									
Additional sizes on request		625 x 625									
System	1	Exposed de	mountable - S	System C							
Weight	Kg	3.6 kg / m²									
Colour		White									
Sound absorption		EN ISO 354									
		α _w = 0.10 (Frequency	L) as per EN f (Hz)	ISO 11654		125	250	500	1000	2000	4000
		α _P	. (/			0.35	0.20	0.10	0.10	0.10	0.10
			as per ASTN	1 C 423							
Sound attenuation		EN ISO 108 D _{n,f,w} = 34 d	848-2 IB as per EN	ISO 717-1		CAC =	36 dB a	s per ASTA	Л Е 413-10)	
Sound reduction	¥	EN ISO 101 R _w = 19 dB	140-2 as per EN ISC	D 717-1							
Fire reaction	F	Euroclass A	2-s3, d0 as	per EN 1350	1 - 1	RUS K	(M1 (G1)	V1, D1,	T1) as per	- 123-FZ	
Light reflectance		81%									
Thermal conductivity	J	λ = 0.060	W/mk as pe	er EN 12667							
Air permeability	<u>रीरी</u>	PM1 (≤ 30	m³/hm²) as p	per DIN 1817	7						
Humidity resistance	44	95% RH									
Clean room	*	ISO 4 as pe	er EN ISO 14	644-1							
Indoor air quality		A+	E1								
Cleanability		P	P.								
Sustainability		EN ISO 14021 45%	BIOSOLUBLE WOOL								

ARMSTRONG NEWTONE



F

- Armstrong NEWTONE is a hydrated calcium silicate ceiling tile offering 100% RH performance and is suitable for use in areas subject to extremes of humidity and temperature
- High sound attenuation (37 dB)

WALL DO NOT THE PARTY

• Ideal for spas and water parks



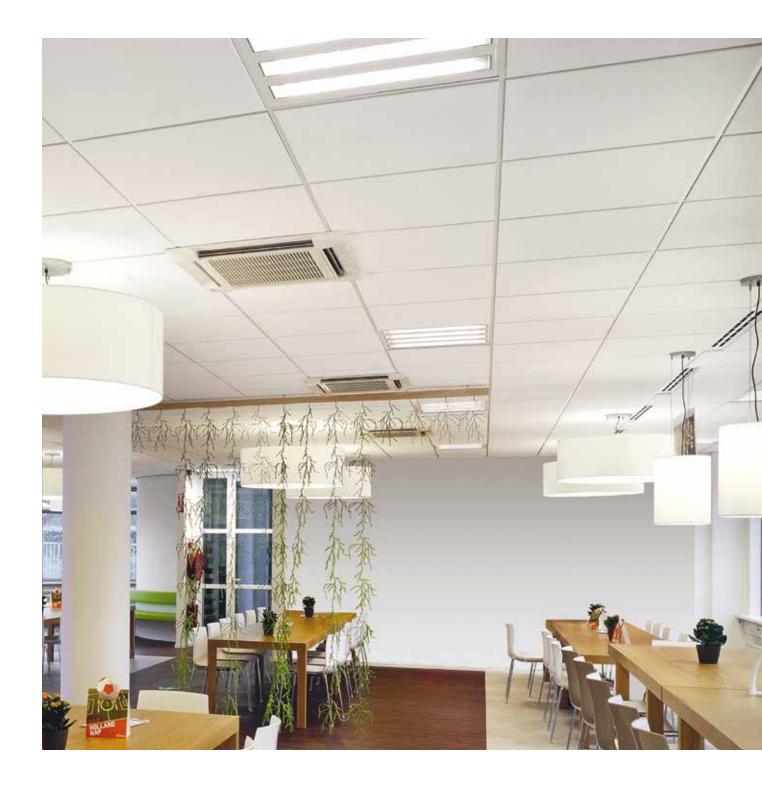


SM W SN REEL

ARMSTRONG NEWTONE

Edge details		Board										
Additional edge details on request		<u> </u>										
Thickness (mm)	↓ ↑	6										
Dimensions (mm) Additional sizes on request	k ,)	600 x 600										
System	1	Exposed der	mountable - Sy	vstem C								
Weight		8.0 kg / m²										
Colour	E	White										
Sound absorption		EN ISO 354 α _w = 0.10(L)) as per EN ISC	0 11654 - Cl	ass N/A							
		Frequency f	^f (Hz)			125	250	500	1000	2000	4000	
				0.400		0.25	0.15	0.10	0.10	0.10	0.05	
		NRC = 0.10	as per ASTM	C 423								
Sound attenuation		EN ISO 108 D _{n,f,w} = 37 di	848-2 B as per EN IS	io 717-1								
Fire reaction	F	Euroclass A1	1-s1,d0 as pe	r EN 13501-	1		RUS KM) (NG) as	per 123-I	FZ		
Light reflectance	7	84%										
Humidity resistance	44	100% RH										
Indoor air quality		A+	E1									
Cleanability		Z	CHOCHER CON	~								

In all environments where humidity conditions could regularly reach and/or exceed 90% RH we recommend the use of 24mm corrosive resistant grid and associated accessories.



Classic Sanded

WITH A FINELY TEXTURED SURFACE, THE SANDED CLASSIC MINERAL CEILING SOLUTION PROVIDES A PERFECT BALANCE OF LIGHT REFLECTANCE AND ACOUSTIC PERFORMANCE TO ENHANCE COMFORT.









- AMF THERMATEX[®] Feinstratos Micro features a finely textured surface and creates an even, uniform ceiling appearance with good sound absorption
- Good sound absorption (0.60 α_w)
- Good to high sound attenuation (34-38 dB)
- Good light reflectance (85%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas



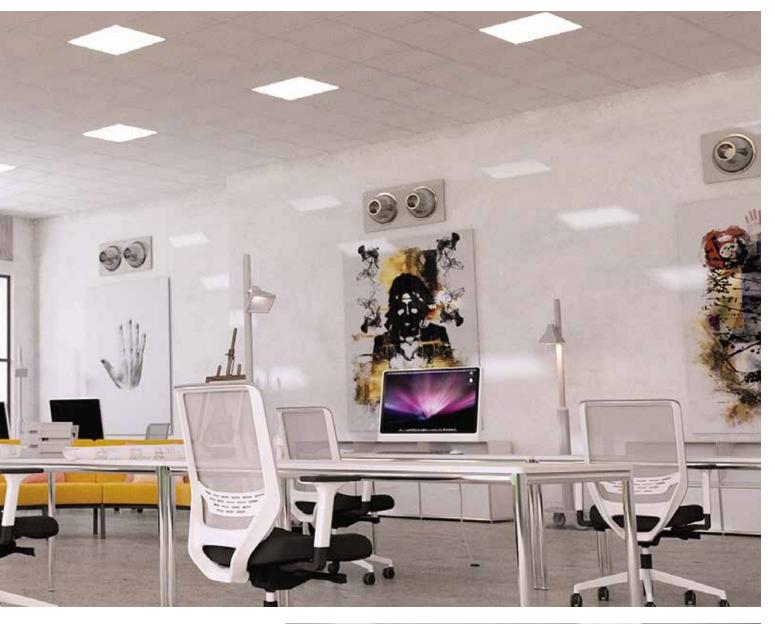
AMF THERMATEX® FEINSTRATOS MICRO

additionate drame ad	Edge details		Board	Tegular 24	Tegular 15	Finesse		SL2		K2C	2	
Trick Trick <tr< th=""><th></th><th></th><th>Î</th><th>ĵ</th><th>Û </th><th></th><th></th><th>î l</th><th>_</th><th></th><th>î I</th><th></th></tr<>			Î	ĵ	Û 			î l	_		î I	
Dimensions (mm) Additional sizes on request 600 × 600 625 × 625 1200 × 600 600 × 600 525 × 625 1200 × 600 600 × 600 525 × 625 1200 × 600 1500 × 300 525 × 625 1200 × 600 2000 × 312,5 2500 × 312,5 System Image: Concerted of plans, System A2 / A3 Semi-concerted plans, System A2 / A3 Semi-concerted plans, System C3 × 605 Semi-concerted plans, System C4 × 600	on requesi			<u>24</u>			<u>+</u>	24	_		28	
Additional sizes 0.55 x 025 0.55 x 025 0.55 x 025 0.55 x 025 0.50 0.50 0.50 0.50 0.50 0.50 0.50	Thickness (mm)	 ↓ ↑ 	15, 19	15, 19	15	19		19		15		
Additional sizes 1200 x 600 1200 x 600 1200 x 600 2000 x 32.5 2000 x 32.5 2000 x 32.5 2500 x 32.5 <th>Dimensions (mm)</th> <th></th> <th></th>	Dimensions (mm)											
system A2/A3 demonstrated and an antibal and antibal antibal and antibal antibal and antibal			1200 x 600					2000 x 3 2500 x 3	12,5 00			
Colour While Sound absorption Nike Mile 125 250 500 1000 2000 4000<	System	1	Exposed demo	untable - System C		table -		demountabl Semi-conce Bandraster, - System I.2 Semi-conce - Corridor, c	e - System I.3 aled planks - demountable aled planks	non-de Systen Semi-c - Banc demou Semi-c - Corri	emountable n I.3 concealed pl Iraster, non- untable - Sys concealed pl idor, non-	- lanks item I.1 lanks
Sound absorption Also 354 - Class C Frequency F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125 250 500 1000 2000 4000 Integration of the property F(Hz) 125	Weight	Kg	3.9 - 5.0 kg	/ m ²								
a = 0.60 as per EN ISO 11654 - Class C Frequency f (Hz) 125 250 500 1000 2000 4000 a, 0.50 0.50 0.55 0.70 0.65 0.50 Nonce - 0.60 as per ASTM C 423 Sound attenuation Exp., = 34 dB board, Tegular 24, Tegular 15, K2C2 (15mm) as per EN ISO 717-1 Image: Comparison of the comparison of	Colour	P	White									
intermediation inter	Sound absorption				1454 Class	c						
inc 0.50					1034 - Class		250	500	1000	2000	4000	
INC = 0.60 G BY ASTIN C 423Sound attenuationSNISO 10848-2 Date 34 dB Board, Tegular 24, Finesse, SL2 (19mm) as per EN ISO 717-1 Sub 2014-24, Finesse, SL2 (19mm) as per EN ISO 717-1Sound reductionSNISO 1014-2 R=21 dB as per EN ISO 717-1Fire reactionSNISO 1014-2 R=21 dB as per EN ISO 177-1Itaght reflectanceSNISO 1014-2 R=21 dB as per EN ISO 177-1Itage reflectanceSNISO 1014-2 R=21 dB as per EN ISO 177-1 R=21 dB as per EN ISO 177-1Itage reflectanceSNISO 1014-2 R=21 dB as per EN ISO 177-1 R=21 dB as per EN				х <i>т</i>								
Sound attenuation Image: Sound attenuatenuation Image: Sound atte			NRC = 0.60	as per ASTM	C 423							
Sound reduction EN ISO 10140-2 Fire reaction Evroclass A2-s1, d0 as per EN ISO 717-1 Light reflectance S5% A = 0.060 W/mk as per EN 12667 Humidity resistance 95% RH Indoor air quality E1 E1 Image: Simple Simpl	Sound attenuation		D _{n,f,w} = 34 d D _{n,f,w} = 38 d	B Board, Tegulo B Board, Tegulo	ar 24, Finesse,	SL2 (19mm) as p	er EN I	SO 717-1	7-1			
Ight reflectance Image: Some and the set of th	Sound reduction	¥.	EN ISO 1014	40-2								
Light reflectance 85% Thermal conductivity > blumidity resistance > Sover air quality > Ideor air quality > Image: Sover air quality >	Fire reaction	<u></u>					RUS	(M1 (G1, V	V1, D1, T1) as per	123-FZ	
Humidity resistance So RH Indoor air quality Image: Comparison of the second se	Light reflectance	7										
Indoor air quality Image: A+ Image: B- Image: Cleanability Sustainability Image: Cleanability Image: Cleanability </th <th>Thermal conductivity</th> <th>l</th> <th>λ = 0.060 V</th> <th>V/mk as per</th> <th>en 12667</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Thermal conductivity	l	λ = 0.060 V	V/mk as per	en 12667							
Image: Cleanability Sustainability Image: Cleanability Image: Clea	Humidity resistance	•	95% RH									
Sustainability $i \in i \in i \in i \in i$	Indoor air quality				Set AIR COMPANY COLORING COLORIN COLORIN COLORING COLORING COLORING COLORING COLORIN							
Sustainability	Cleanability		<i>P</i>	P.								
	Sustainability		ен ISO 14021 37-43%	EPD	G							

Classic Fissured/ Perforated

CHOOSE A FISSURED SURFACE FROM THE CLASSIC MINERAL RANGE TO ENJOY ITS UNIQUE COMBINATION OF SUPERIOR SOUND ABSORPTION AND SOUND ATTENUATION FOR IMPROVED INTELLIGIBILITY.









DATASHEET Star 15mm

- Star 15mm features fine, uneven perforations with a smooth surface finish, and meets the needs for a modern, elegant design visual
- Good sound absorption (0.60 α_w)



- Good sound attenuation (34 dB)
- Excellent light reflectance (88%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

ратазнеет Star 15mm

Edge details	Board	Tegular 24		Tegular 15	K2	C2
Additional edge details on request			1			
Thickness (mm)	15	15		15	1	5
Dimensions (mm) Additional sizes on request	600 x 600 625 x 625 1200 x 600 1250 x 625 2500 x 300	600 x 600 625 x 625 1200 x 600		600 x 600 625 x 625 200 x 600	2000 x 2500 x	< 312,5 < 312,5
System		- System C demountable - System I emountable - System F.3			Semi-conce non-demou System I.3	
Weight	3.6 - 3.8 kg / m ²					
Colour	White					
Sound absorption	EN ISO 354		(a _w = 0.60 as per	EN ISO 11654	- Class C
	Frequency f (Hz)		125 250		1000 2000	4000
	α_p NRC = 0.60 as per AS		0.45 0.50	0.55	0.70 0.65	0.50
Sound attenuation	EN ISO 10848-2 Dativ = 34 dB as per EN		CA	C = 35 dB as pe	r ASTM E 413-10	D
Sound reduction	EN ISO 10140-2 Rw = 21 dB as per EN	ISO 717-1				
Fire reaction	Euroclass A2-s1, d0 a Class A as per ASTM	as per EN 13501-1				
Light reflectance	88%					
Thermal conductivity	λ = 0.060 W/mk as	per EN 12667				
Humidity resistance	95% RH					
Indoor air quality	Image: Second	Contraction of the second seco				
Cleanability	P P.					
Sustainability	Скорона и	BIOSOLUBLE WOOL				



AMF THERMATEX® Feinfresko



- AMF THERMATEX[®] Feinfresko features an uneven textured finish and offers good sound absorption for better acoustic comfort
- Good sound absorption (0.60 (H) α_w)
- High sound attenuation (32 dB)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas





AMF THERMATEX® FEINFRESKO

Edge details	Board	Tegular 24			Tegul	ar 15			
Additional edge details on request									
Thickness (mm)	15	15			15				
Dimensions (mm) Additional sizes on request	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625			625	625 x 625			
System	Exposed demountable - System C								
Weight K	3.6 - 3.8 kg / m²	3.6 - 3.8 kg / m ²							
Colour	White								
Sound absorption	EN ISO 354		125 0.45	250 0.40	500 0.50	1000 0.70	2000 0.80	4000 0.75	
Sound attenuation	EN ISO 10848-2 D _{n.f.w} = 32 dB as per EN ISO 717	CAC = 32 dB as per ASTM E 413-10							
Sound reduction	EN ISO 10140-2 R _w = 21 dB as per EN ISO 717-1								
Fire reaction	Euroclass A2-s1, d0 as per EN	RUS KM1 (G1, V1, D1, T1) as per 123-FZ							
Light reflectance	83%								
Thermal conductivity	λ = 0.060 W/mk as per EN 12667								
Air permeability	PM1 (≤ 30 m ³ /hm ²) as per DIN 18177								
Humidity resistance	90% RH								
Indoor air quality 📑	A+ E1 IACG								
Cleanability									
Sustainability	Res Res								





FIRE PERFORMANCE IS AN IMPORTANT CONSIDERATION FOR EVERY CEILING SYSTEM - NO MATTER HOW SIMPLE OR COMPLEX.

Our ceiling tiles are engineered to meet the most stringent industry standards. Select from a broad range of looks and acoustic options to meet your design and fire reaction requirements.

EXPERIENCE MORE POSSIBILITIES



AMF THERMATEX® Uno

Uno El 30

System Uno is a corridor span solution that offers independent fire protection El 30 from above and below. If a fire occurs within the ceiling void, escape routes underneath remain free of smoke, flame and heat. Or if it occurs below the ceiling, the building structure and services in the ceiling void are protected. System Uno planks installed on a supporting perimeter construction can span up to 2.8m without suspension hangers, and are quick and easy to install.

The system offers good levels of sound absorption and is available in a variety of finishes.



ARMSTRONG SUSPENSION SOLUTIONS "PRECISION MEETS PERFORMANCE"



Knauf Ceiling Solutions suspension systems include a full range of solution and detailing for all ceiling suspension requirements. A full range of accessories is also available.

GENERAL SOLUTIONS

A range of standard exposed grid suspensions systems including Prelude 15, Prelude 24, Prelude 24 Sixty² for longer spans, Prelude 35 and Bandraster.

• PEAKFORM

Most profiles in the Prelude range of grids feature the innovative Peakform design which is taller and engineered to create stronger, more stable suspension systems. The Peakform shape makes Main Runners and Cross Tees quicker and easier to cut.

PRELUDE UNIVERSAL MAIN RUNNER

The Prelude Universal Main Runner supports the installation of either TL^2 or TL hook/butt cut Cross Tees or XL^2 stab/override Cross Tees from one simple inventory of Main Runners.

• XL² CROSS TEES – "Click" installation

Prelude XL² Cross Tees feature an advanced stab system that locates with an audible click, ensuring a solid installation at all times.

• TL² CROSS TEES – "Hook" installation

 $\mathsf{T}\mathsf{L}^2$ is a highly engineered staked-on hook solution with a patented clip.

• TL CROSS TEES – "Hook" installation

Prelude TL Cross Tees in 15mm width feature an advanced an integrally formed hook nose.

Products may vary from country to country. Please contact your local sales representative.

DESIGN SOLUTIONS



PERFECTLINE XL² is designed to create a crisp, clean look to provide an enhanced aesthetic. The channel profile finishes flush with the ceiling surface leaving a minimalist 3mm or 6mm reveal.

SPECIFIC SOLUTIONS



- **Clean Room 24** is a unique co-extrusion of aluminium with a PVC gasket to create a better seal between tile and grid for clean room applications and "non-magnetic" environments.
- **Prelude 24 Corrosive Resistant** has a special paint finish and is designed for areas requiring enhanced corrosion resistance.
- **System Z** is a system providing an accessible semi-concealed appearance with ship-lap SL2 planks.
- **Seismic Rx**[®] is a specific installation method for Prelude 24 grid with XL² Cross Tees combined with specialist accessories.

CORRIDOR SOLUTIONS



• Multiple corridor options from freespaning semi-concealed grid for corridors with SL2 demountable planks.

AXIOM SOLUTIONS



• AXIOM Transitions, Profiles and accessories compliment the traditional range of perimeter angle trims. Create changes in level, perimeter lighting features or transition to a flush plasterboard perimeter.



DONN® "COMPETENT AND COMPATIBLE"



The proven DONN[®] DX technology with the patented gold clip has long been regarded as a guarantee for high quality ceiling grid substructures. A wide range of products guarantees consistent, flexible and certified system compatibility.

PRODUCT BENEFITS

- More stability, increased security, faster installation
- Three rib design for more rigidity
- Clear audible click-connection
- Compatible with all well-known acoustic ceiling tiles
- Create individual ceiling designs with alternative colour options for the capping: Black matt (LM), Metal 06 (D), Aluminium (A), Chrome (M), Gold (Q)., Additional RAL colours available on request.
- Wide range of system fire tests for all common soffit types according to the latest EN 1365-2 in conjunction with EN 1363-1



Products may vary from country to country. Please contact your local sales representative.

STABLE AND SECURE CEILING GRID STRUCTURE

The DX3® technology with its patented rib design gives DX main runner and long cross tee ceiling grid structures even more rigidity. The profiles are dimensionally more stable and have greater torsional strength. This results in an easier and therefore faster installation and gives a stable and secure ceiling grid structure.

PROVEN DONN® SYSTEM PORTFOLIO

DX Standard

Create shadow gaps and reveals to highlight the modularity in a ceiling, with the DX Fineline system. The system features a box profile with a central groove (6.5mm width) along the exposed profile that creates a shadow gap of varying visibility, dependent on the rooms lighting conditions.

Design & Aesthetic

An increasing number of ceiling constructions require special solutions, which cannot be achieved using conventional systems. These include, amongst others, wide span, heavy load, corridor and corrosion protected systems.

Function & Creativity

All DX standard systems are characterised by a combination of subtle appearance and high efficiency. The systems are available in 24 and 15mm profile widths (visible area).





AMF VENTATEC® "QUALITY AND FLEXIBILITY"



High material quality and precise technical detailing characterise the standard of the profiles. The high performance product design guarantees the stability, safety and flexibility of the construction. In combination with AMF THERMATEX[®], the result is a perfect ceiling solution to meet the highest requirements.

PRODUCT BENEFITS

- Modular system Click (Joggled, Butt Cut)
- High stability due to stitching and ribbing
- Strong connection between main runners and cross tees as a result of the stainless steel end clips
- Easy to handle and simple to install
- Quick and easy removal of the cross tees
- Audible click confirms secure connection of Click-components
- Wide range of system fire tests for all common soffit types according to the latest EN 1365-2 in conjunction with EN 1363-1

Products may vary from country to country. Please contact your local sales representative.

Individual and flexible ceiling grid structure

The AMF VENTATEC[®] ceiling suspension grid system offers maximum flexibility as a simple Click- construction, with high or low cross tees in both joggled and butt cut options. 24 or 15mm profile widths are available, the system can be individually adapted to many aesthetic and functional requirements.

Certified in fire protection

We help our customers with tested fire protection systems in the ceiling area. The product and system developments introduced in recent years have been tested against the latest standards and test criteria taking all aspects of the ceiling construction (such as integrated lighting) into account. The result is a comprehensive portfolio of current fire tests with the AMF VENTATEC[®] grid system in combination with AMF THERMATEX[®] ceiling tiles protecting all relevant soffit types.

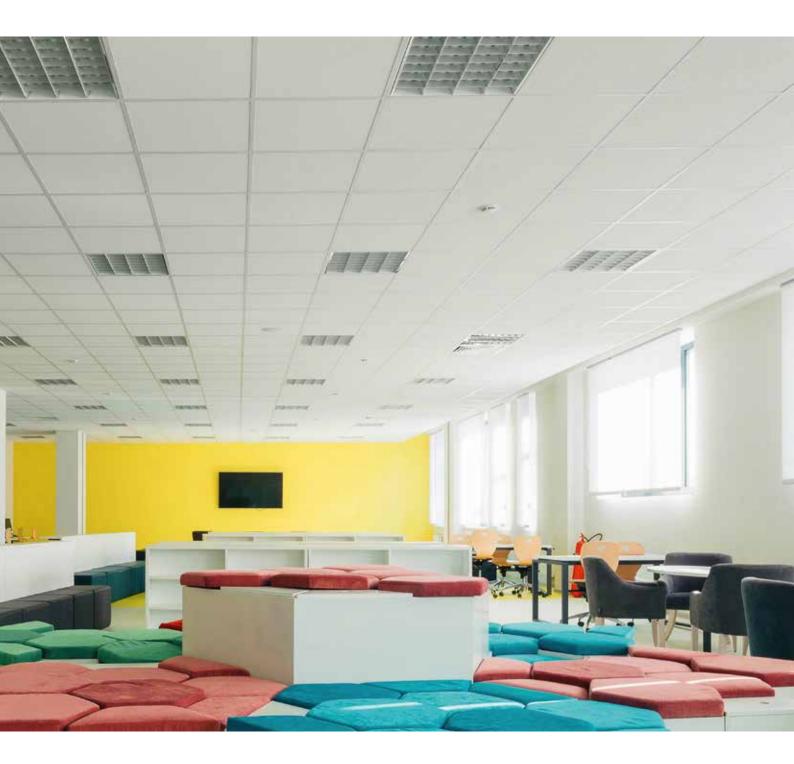


AME VENTAL

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.

© Aemelie Deelder, AENA, Anke Müllerklein, Alan Jensen, Alexander Gorchakov, Alexander Orlov, Art Foto M, Baldauf & Baldauf Fotografie, Beat Buhler, Beppe Raso, Bernard Gallandi, Bettina Meckel Fotodesign, River Production, Boris Vezmar, BoysPlayNice, Braca Nadezdic, Clairelize Photography, Claude Fisicaro, Daniel Cheong, Daniel Hager, Dave Parker, David Frutos, David Güntsch, Egor Sachko, Eisma, Erieta Attali, Filip Dujardin, Filip Slapal, Filippo di Pretoro, Foto Kushtrimi, Foto Lautenschlager, Fotostudio Eder, Francisco Urrutia, Frederic Schweizer, FUD, Grant Smith, Grigori Rassinier, Gunter Laznia, Bregenz, Hawkins\Brown - Francesco Montaguti, Hisao Suzuki, Horizon Photoworks, IAKW-AG, Andreas Hofer, Ilya Kovalev, Infinite 3D Limited, Insightful Environments, Intermontage, Bjorn Kizeznberg, Ivan Lambrev, Jack Hobhouse, Jakub Jaachim, James Sleight Design Quorum, James Stephenson Photography, Jan Willem Schouten, Javier Ortega, Jiři Hloušek, Jiři Pařízek, Joao Morgado, Joel Knight, Johannes Malik, John Sturrock, Jordi Canosa, José Manuel Cutillas, Julia Stakhovskaya, Jurij Kobe, Kalibre, Kamen Valkanov, Katarzyna Ulanska, Kim Oliver, Klemen Razinger, Klomfar + Partner, Küll Salum, Laurent Wangermez, Lindman Photography, Lluis Sans, Luca Girardini, Ludwig Schedl, Marcel Van Hoorn, Matteo Zanardi, McAteer, Mecanoo, Michael van Oosten, Miguel de Guzmán, Miljenko Hegedić, Miran Kambič, Mirth van Leeuwen, Muller Fotografie, MVL Media Groep, Nail Ziyatdinov, Nike Bourgeois, Nina Baisch, Peter Matthews Photographer, Philip Durrant, Philippe Ruault, Piotr Kepka, Rafael Vargas, Raumundfunktion, Reinhard Ohner, Burghardt ZI GmbH, Rainer Täpper, Renot Izzi, Ica ag, Rob van Esch, Romain Boileux, Rudi Walti, Sandro Lendler, Sebastien Puiatti, Sergei Ananiev, Sergei Kadulin, Sergiy Kadulin Photography, Sergei Kobylko, Simon Garcia, Simon Miles, Siobhan Doran, Sonja Bell, SpheroVision, Studio A&D Architects, StudioVU, Szymon Polański, Tim Soar, Tom Green, U. Beuttemuller, U1, Valerian Wurzer, Vedrana Ergic, Walter Henisch,





YOUR CEILING OUR SOLUTIONS

Knauf Ceilings Solutions GmbH & Co. KG

Elsenthal 15, 94481 Grafenau, Germany Phone: +49 8552 422-0 Fax: +49 9323 318-881-856 www.knaufceilingsolutions.com E-Mail: info.kcs@knauf.com Registered court: Passau district court, Registration No.: HRB 1023 VAT No. pursuant to § 27a of the German VAT Act (Umsatzsteuergesetz): DE131249009 Managing Director: Karl Wenig

NORDICS_EN - 09/2023 Cover page image © Sergiy Kadulin