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# EXPERIENCE MINERAL SOLUTIONS







# Experience More Innovation

# WITH FUNCTIONAL, NATURAL AND SUSTAINABLE MINERAL SOLUTIONS

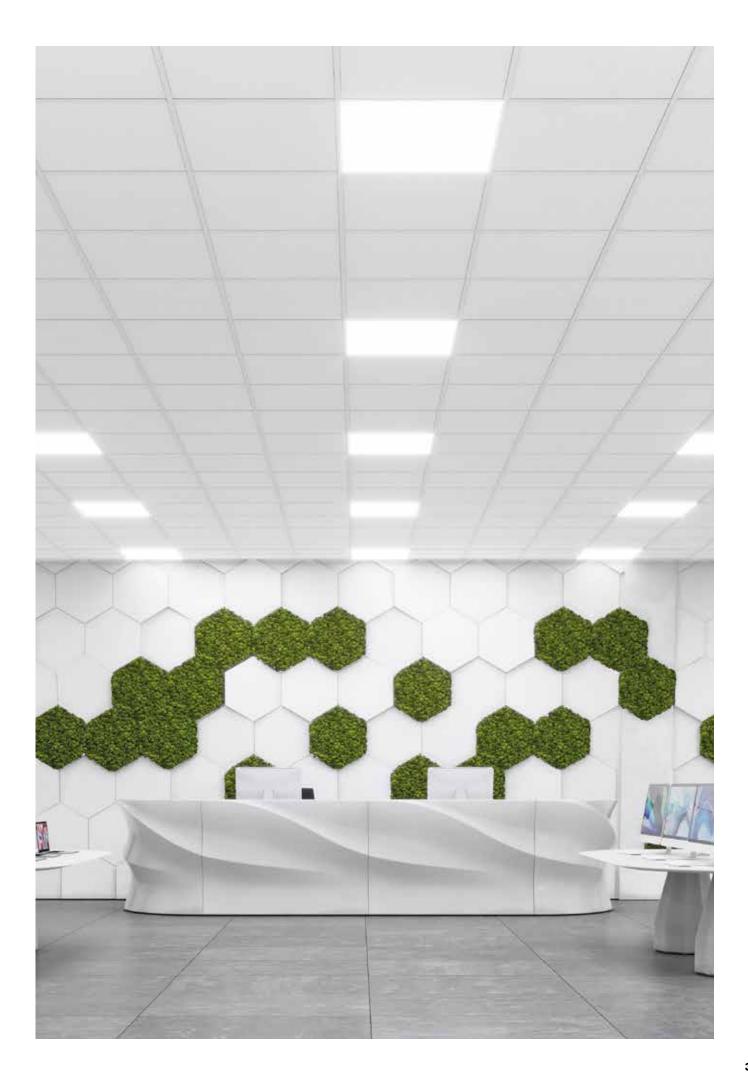
We believe that the ceiling is an integral part of every interior space. It helps give us a wonderful sense of well-being and safety. A seamless connection between form and function, it enhances and protects the spaces in which we live, work, recover and grow. It balances acoustics, provides healthy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

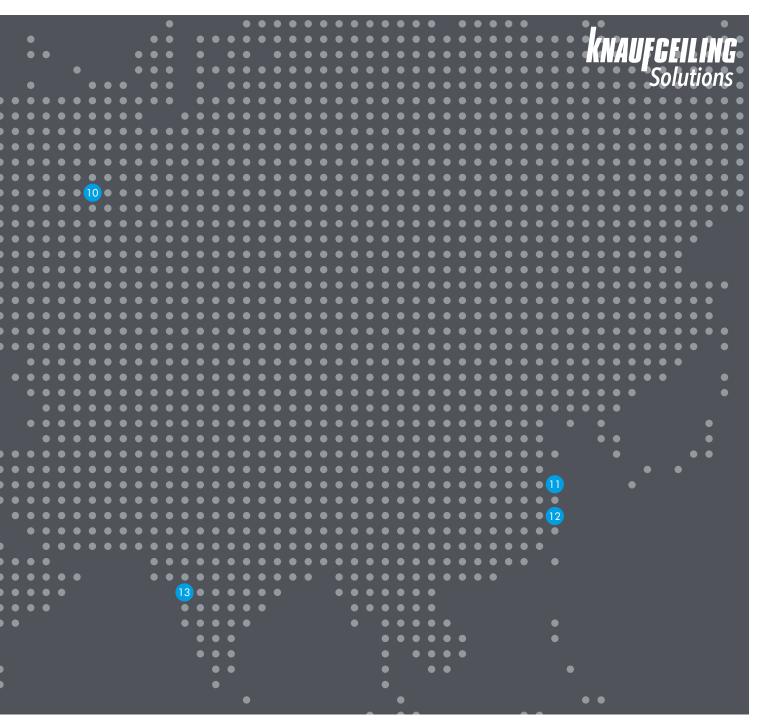


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# Production Network

# 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** Viersen (DE) Grid
- 03 Stafford (UK) Metal
- **04** Pontarlier (FR) Mineral
- **05** Valenciennes (FR) Grid
- 06 Dreux (FR) Grid
- **07** Ferndorf (AT) Wood Wool
- **08 Rankweil (AT)** Metal

**09** Antwerp (BE) Slitting
 **10** Alabuga (RU) Mineral



# APAC

- 11 Wujiang (CN)
- Mineral **12 Shanghai (CN)** Grid
- 13 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<sub>w</sub>) 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.



### **CRADLE TO CRADLE CERTIFIED®**

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



#### **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.

For detailed information please ask us for the cleaning instructions.



#### WFIGHT

Weight per unit area of the product (kg/m<sup>2</sup>).



### 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,

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 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<sub>ncw</sub>

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	aw
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
E	0.15; 0.20; 0.25
Not Classified	0.00; 0.05; 0.10

## WEIGHTED SUSPENDED CEILING NORMALISED FLANKING LEVEL DIFFERENCE, D<sub>nfw</sub>

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<sub>ncw</sub>).

## 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<sup>®</sup> 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<sup>®</sup>, BREEAM, HQE, DGNB, WELL Building Standard.

# **VISUAL COMFORT**

# **KNAUFGEILING** 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<sup>®</sup>, 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<sup>®</sup> Products Program 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<sup>®</sup> products are recognised in LEED<sup>®</sup> 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



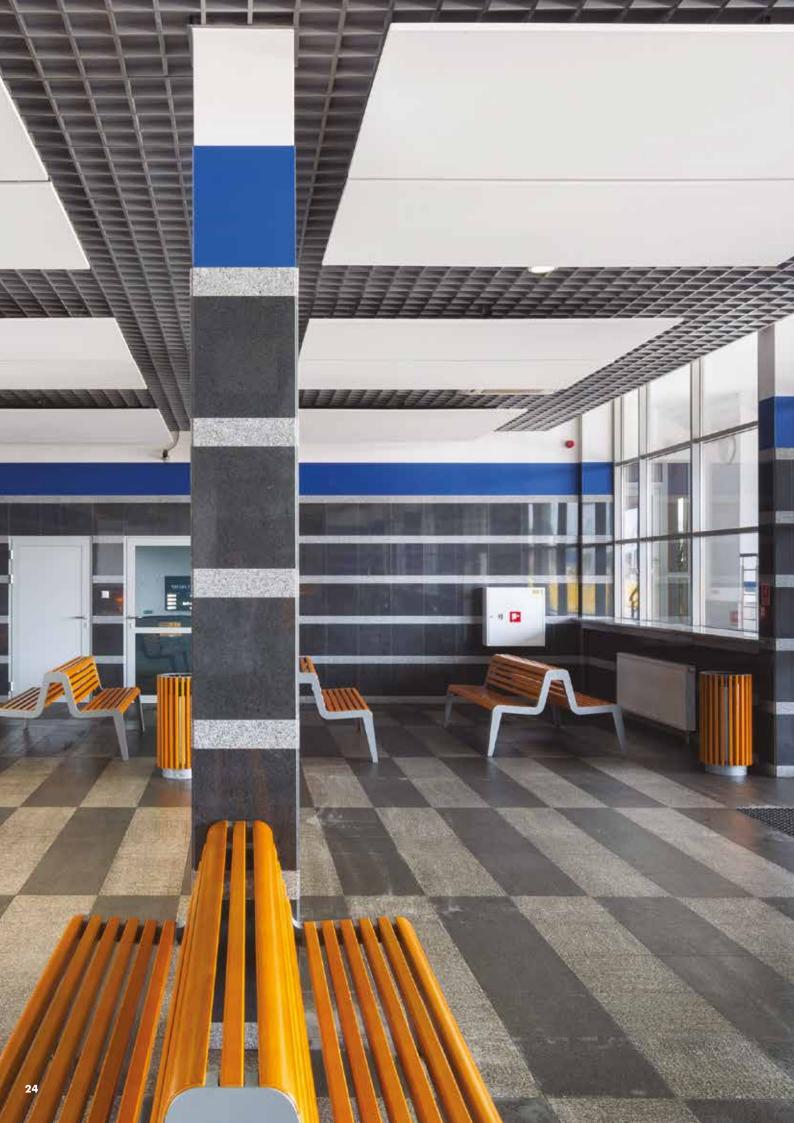
# CREATING SPACES FOR HEALING

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

AMF TOPIQ <sup>®</sup> Sonic Element	30
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AMF TOPIQ <sup>®</sup> Prime	86
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Armstrong SANIGUARD	98	AMF TOPIQ <sup>®</sup> Prime Hygena	112
AMF THERMATEX <sup>®</sup> Aquatec	100	AMF TOPIQ <sup>®</sup> Efficient Pro Hygena	114
AMF THERMATEX <sup>®</sup> Aquatec Hygena	102	PLAIN Hygena	116
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## **CLASSIC SANDED**

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## **CLASSIC FISSURED/PERFORATED**

AMF THERMATEX® Star 15mm	138	AMF THERMATEX <sup>®</sup> Mercure Complete	146
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AMF THERMATEX® Uno



# 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.





# AMF TOPIQ® SONIC ELEMENT



- AMF TOPIQ<sup>®</sup> Sonic element is a frameless and jointless ceiling raft, featuring the AMF TOPIQ<sup>®</sup> Strong Edge Technology. It also benefits from a fully colour coated face and reverse laminate fleece
- The monolithic ceiling raft design offers excellent sound absorption properties and when installed gives the appearance of a free floating ceiling cloud



# AMF TOPIQ<sup>®</sup> SONIC ELEMENT

Thickness (mm)	40							
Dimensions (mm) Additional sizes and shapes on request	Trapezoid Hexagon Left Parallelogram Right Parallelogram Square	1170 x 870 1170 x 1013 1170 x 1170 1170 x 1170 1180 x 1180		Rectangle Rectangle Rectangle Rectangle Circle Circle		17 18 23 Ø8	00 x 600 80 x 1180 00 x 900 80 x 1180 300 1200	
System	Wire hanger							
Weight K	6.0 kg/m²							
Colour & design	White Colour							
Sound absorption	en ISO 354							
	Frequency f (Hz) Equivalent Absorption A	Area Aobj*	125	250	500	1000	2000	4000
	1180 x 1180 suspension height 190m	nm	0.40	1.20	2.20	2.40	2.40	2.30
	1780 x 1180 suspension height 190m	nm	0.80	2.10	3.10	3.30	3.50	3.40
	2380 x 1180 suspension height 190m	nm	0.80	2.70	4.20	4.40	4.50	4.30
	Ø1200 suspension height 150m	nm	0.40	1.00	1.70	1.80	2.00	1.90
				*Values shown	n are the ave	erage of the 3	one third oc	tave band values
Fire reaction	Euroclass <b>A2-s1,d0</b> as	per EN 13501-1						
Light reflectance	Up to <b>88%</b>							
Humidity resistance	95%							
Cleanability								
Sustainability								

Flexible design and adjustable to various heights using steel cables.

# AMF THERMATEX® SONIC ARC



- Create unique, elegant designs with an array of AMF THERMATEX® Sonic concave and convex canopies
- Play with custom colours to create exciting contrasting effects
- AMF THERMATEX<sup>®</sup> Sonic Arc allows you express your creativity and accentuate an area using new spacial effects



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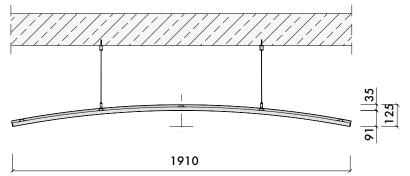
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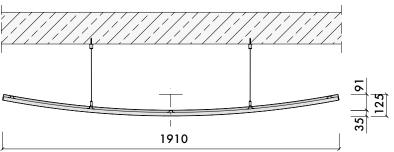
# **AMF THERMATEX® SONIC ARC**

Thickness (mm)	↓ ↑	35							
Dimensions (mm)	k	Concave or Convex 1910 x 1180							
System		Wire Hanger							
Weight	Kg	16.0 kg/pc							
Colour & design	<b>@</b>	White Colour							
Sound absorption		EN ISO 354							
		Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000	
		Suspension height 300mm	0.50	1.70 Values show	2.20 n are the ave	3.00 rage of the 3	3.60 one third or	3.80 ctave band vo	alues
Light reflectance		Up to <b>88%</b>				0			
Humidity resistance	44	90%							
Cleanability									
Sustainability									

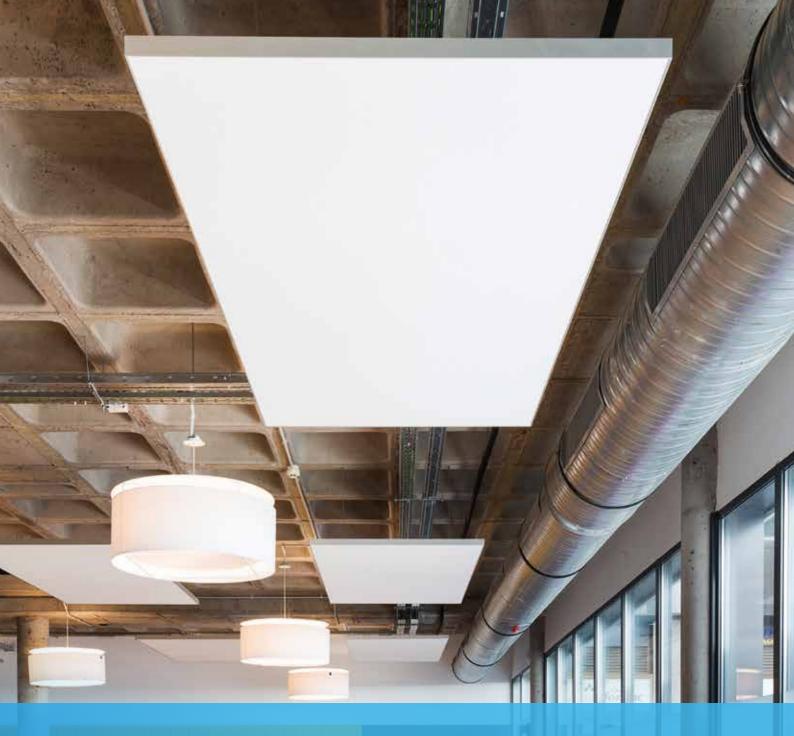
THERMATEX® Sonic arc concave



THERMATEX® Sonic arc convex



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



# AMF THERMATEX® SONIC MODERN



- AMF THERMATEX<sup>®</sup> Sonic Modern 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.



# **AMF THERMATEX® SONIC MODERN**

	J.									
Thickness (mm)	$\uparrow$	43								
Dimensions (mm)	<b>,</b> ,	1200 × 600 1200 × 1200 1800 × 1200 2400 × 1200								
System		Wire Hanger								
Weight	Kg	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	<b>e</b>	Frame: anodised aluminium, white, RAL colours Sonic Modern Classic: laminate, white Sonic Modern Colour: laminate, black, silver, blue, green, yellow, cream, red, orange and grey Somic Modern Exclusive: laminate with graphic print								
Sound absorption		EN ISO 354								
		Frequency f (Hz) Equivalent Absorption Area Aobj*		125	250	500	1000	2000	4000	
		1200 x 1200mm Suspension height 300mm		0.50	1.10	1.50	2.10	2.40	2.30	
		2400 x 1200mm Suspension height 300mm		0.90	2.00	2.80	3.90	4.30	4.30	
		*Values shown are the average of the 3 one third octave band value								
Light reflectance		Up to <b>88%</b>								
Humidity resistance	44	95%								
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.



# AMF THERMATEX® SONIC SKY



- AMF THERMATEX<sup>®</sup> Sonic Sky is a flexible ceiling raft system, and is available in a wide range of colours and shapes. The unique design offers architects and designers the opportunity to create exciting ceiling clouds in any interior space. The rafts consist of a self-supporting frame fixed to the ceiling with an adjustable suspension system and are installed with AMF THERMATEX<sup>®</sup> acoustic ceiling tiles
- AMF THERMATEX<sup>®</sup> Alpha and Alpha HD laminated ceilings are available in a variety of colours, and are ideal for offices, classrooms and learning applications
- Suspension cables are discreet and virtually invisible





# **AMF THERMATEX® SONIC SKY**

<b>↓</b> 40							
1200 x 1200 2400 x 2400 2440 x 1240 3600 x 1800 Additional dimensions on request							
Wire Hanger							
3.0 - 6.0 kg/m <sup>2</sup>							
White Colour							
EN ISO 354							
Frequency f (Hz)	125	250	500	1000	2000	4000	
Sonic Sky Alpha 1200x1200mm	0.35	0.85	1.15	1.80	1.95	1.95	
Suspension neight SOOmm	*\	alues show	n are the ave	raae of the S	3 one third or	tave band va	lues
Up to 88%							
95%							
BCOOLUME WOOL CEIZZZOOR Anne G							
Frame detail							
	Total       1200 x 1200         2400 x 2400       2400 x 1240         3coo x 1800       Additional dimensions on request         Image:       Write Hanger         Image:       3.0 - 6.0 kg/m²         Image:       White         Colour       Sonic Stat         Frequency f (Hz)       Equivalent Absorption Area Aobj*         Sonic Sky Alpha 1200x 1200mm       Sonic Sky Alpha 1200x 1200mm         Image:       Image:         Image:       Image:	**       1200 × 1200         2400 × 2400       2440 × 1240         3600 × 1800       Additional dimensions on request         ***       3.0 - 6.0 kg/m²         ***       ***         ****	Total       1200 x 1200         2400 x 2400       2400 x 1240         2400 x 1240       3600 x 1800         Additional dimensions on request       Image: Imag	1200 x 1200         2400 x 2400         2440 x 1240         3600 x 1800         Additional dimensions on request         3.0 - 6.0 kg/m²         Xire         Prequency f(Hz)         EN ISO 354         Frequency f(Hz)         Equivalent Absorption Area Aobj*         3.0 - 6.0 kg/m²         Xire         Vire         Vire         Yire         Yire	Image: Constraint of the constraint	1200 x 1200 2440 x 2400 2440 x 1240 3600 x 1800 Additional dimensions on request         Wire Hanger         3.0 - 6.0 kg/m <sup>2</sup> While Calour         EN ISO 354         Frequency f(Hz) Equivalent Absorption Area Aobj*       125       250       500       1000       2000         Sonic Sky Alpha 1200x 1200mm       0.35       0.85       1.15       1.80       1.95         Vup to 88%	Image: 1200 x 1200 x 1200 2440 x 1240 3600 x 1200 2440 x 1240 3600 x 1800 Additional dimensions on request       Image: 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.

Flexible design and adjustable to various heights using steel cables.



# AMF THERMATEX® BAFFLE



- AMF THERMATEX<sup>®</sup> Baffle Classic features an aluminium frame and white laminate surface for a modern linear appearance. THERMATEX<sup>®</sup> Baffles are also available in a variety of colours or customised graphic prints on request
- Good sound absorption (0.60 0.65(H)  $\alpha_{\rm w}$ ): 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





### **AMF THERMATEX® BAFFLE**

Thickness (mm)		50										
Dimensions (mm)	<b></b>	1200 x 300 1200 x 400 1200 x 600 1800 x 400	)									
System		BAN - with BAL - with t	top screw ab connec	thread tor								
Weight	Kg	1200 x 300 1200 x 400 1200 x 600 1800 x 400	0: 4.1 kg/p 0: 5.9 kg/p	oc								
Colour & design		Frame: an Baffle Cla Baffle Col Baffle Exc	ssic: lamir our: lamir	nate, white nate, black	, silver, blu	ie, green	n, yellov	v, cream,	red, oran	ge and gr	еу	
Sound absorption		EN ISO 35					_,					
		α <sub>w</sub> = <b>0.60(</b> Frequency		mm), <b>0.65</b>	<b>(MH)</b> (60		s per EN 125	250	54 - <b>Clas</b> 500	is <b>C</b>	2000	4000
		Baffles 120					).35	0.40	0.55	0.90	0.90	0.90
		Baffles 120		m		C	).35	0.35	0.75	1.00	1.00	1.00
		NRC = <b>0.6</b>	<b>5</b> as per AS	STM C 423	3							
Fire reaction	<b>E</b>	Euroclass A	<b>2-s1,d0</b> d	as per EN	13501-1							
Humidity resistance	44	95%										
Cleanability		P										
Sustainability		BIOSOLUBLE WOOL										
	E	Baffle BAL		ſ				Baffle BA	AN			
				0	$\left( \right)$						9 \	
					0	$\geq$				O		
	,			/		1						
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				,				Ň	$\bigvee$			
			$\checkmark$									







- AMF THERMATEX<sup>®</sup> Line Modern 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

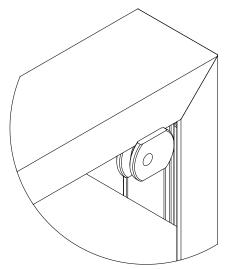




### AMF THERMATEX® LINE MODERN

Thickness (mm)	<ul> <li>↓</li> <li>↑</li> </ul>	43						
Dimensions (mm)	<b></b> ,	1200 x 600 1200 x 1200 1800 x 1200 2400 x 1200						
System		Eccentric bracket						
Weight		9.4 kg/m²						
Colour & design	<b>@</b>	Frame: anodised aluminium, white, R. Line Modern Classic: laminate, whit Line Modern Colour: laminate, blac Line Modern Exclusive: laminate w	e ck, silver, blue, g		v, cream, n	ed, orange	e and grey	/
Sound absorption		EN ISO 354 Frequency f (Hz) Equivalent Absorption Area Aobj* 1200 x 600mm 1200 x 1200mm 1800 x 1200mm 2400 x 1200mm	125 0.20 0.50 0.60 1.10	0 0.60 0 1.10 0 1.90 0 2.20	500 1.00 1.60 2.50 3.10 vn are the ave	1000 0.90 1.50 2.40 3.10 erage of the 3	2000 0.80 1.50 2.20 3.00	4000 0.90 1.50 2.40 3.10 ctave band values
Light reflectance	7	Up to <b>88%</b>						
Humidity resistance	•••	95%						
Cleanability								
Sustainability		RC 12722000 Anne Q						

Detail: Eccentric bracket





# AMF LINE STYLE



- AMF LINE Style is a printed 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
- Basic light: Lightweight profile for one-sided coverings in small sizes
- Basic ES: Profile for all sizes with one-sided coverings
- Basic DS: Lightweight, slim profile in larger sizes
- For all three versions a highly absorbing acoustic filling is possible

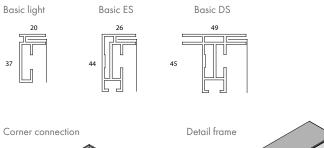


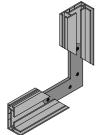


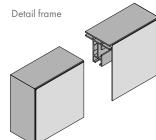
# **AMF LINE STYLE**

Thickness (mm)	20 - 49							
Dimensions (mm)	600 x 600 1200 x 1200 1800 x 1200 2400 x 1200 2400 x 2400 4000 x 3000							
System	Wall bracket							
Weight	3.0 - 6.0 kg/m²							
Colour & design	Frame: anodised aluminium, white, RAL col Line Style Basic Light: fabric, white or pri Line Style Basic ES: fabric, white or printe Line Style Basic DS: fabric, white or printe	nted d						
Sound absorption	EN ISO 354							
	Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000	
	1200 x 1200mm (49mm thickness)	0.30	0.90 Values show	1.90 n are the ave	1.90 rage of the 3	1.80 8 one third oc	1.60 ctave band v	alues
Humidity resistance	95%							
Cleanability								
Sustainability	HIGHCLINE WOOL CONTRACTOR BC 12722008 Annue G							

#### Profiles cross-sections

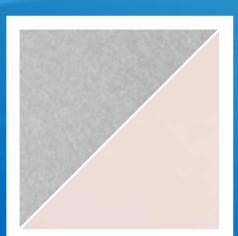








# AMF THERMATEX® Alpha Colour



- AMF THERMATEX<sup>®</sup> Alpha Colour provides a modern appearance and is the optimal solution for spaces that require outstanding sound absorption. In addition to a white or black laminate finish, the acoustic range is also available in cream, silver, blue, orange, red, grey, yellow and green
- Excellent sound absorption (0.95 α<sub>w</sub>)
- Ideal for offices, restaurants, cinemas, classrooms and learning applications





### AMF THERMATEX® ALPHA COLOUR

Edge details		Board											
Additional edge details		Û											
on request													
Thickness (mm)	<ul> <li>↓</li> <li>↑</li> </ul>	19											
Dimensions (mm)	k	600 x 0											
Additional sizes on request		625 x 0 1200 x 0											
System		Exposed	demount	table - Sy	vstem C								
Weight		3.3 kg /	′ m²										
Colour		Black	Silver	Cream	Grey	Blue	Yellow	Orange	Red	Green			
Sound absorption		en iso											
		99			11654 - <b>Cl</b> 11654 - <b>Cl</b>			·s)					
		44	ncy f (Hz)				125	250	500	1000	2000	4000	
		$\alpha_{_{P}}$		Black			0.45	0.80	0.95	0.95	1.00	1.00	
		Frequer	ncy f (Hz)				125	250	500	1000	2000	4000	
		$\alpha_{_{P}}$			colours		0.50	0.80	0.90	0.90	1.00	1.00	
			<b>0.90</b> as p		C 423								
Sound attenuation			10848-2 <b>8 dB</b> as p		60 717-1			CAC = <b>2</b>	<b>9 dB</b> as p	er ASTM E	413-10		
Sound reduction	Ť		10140-2 <b>dB</b> as pe	r FN ISO	717-1								
Fire reaction	ক্ত	vv			er EN 135	01-1		RUS <b>K</b> N	1 (G1, V	1, D1, T1)	as per 123	3-FZ	
	C/								• •				
Thermal conductivity	J	$\lambda = 0.04$	40 W/m	<b>ik</b> as per	EN 1266	7							
Air permeability	रीरि	<b>PM1</b> (≤	30 m³/h	m²) as pe	er DIN 181	177							
Humidity resistance		95% RI	н										
Indoor air quality		A+		N 13964									
Cleanability		P											
Sustainability		EN 150 14021		2/2008 Annex Q	www.bla	auer-engel.de	/uz132						

# ARMSTRONG OPTIMA L CANOPY



- Armstrong OPTIMA L Canopy is a range of floating ceilings providing high levels of sound absorption and available in three shapes - square, rectangle and circle - and seven sizes
- A cost effective design solution for open areas providing excellent sound absorption and light reflectance
- To be used in new spaces or to rejuvenate or renovate an existing area
- Very easy and quick to install under plasterboard ceilings, existing grid systems or exposed concrete soffits
- White on all surfaces giving a high quality appearance





# **ARMSTRONG OPTIMA L CANOPY**

Thickness (mm)	40		
Dimensions (mm)	Small Rectangle1200 × 600Square1200 × 1200Medium Rectangle A1800 × 900Medium Rectangle B1800 × 1200	Large Rectangle Small Circle Circle	2400 x 1200 Ø800 Ø1200 Available in 2 pieces / carton.
System	Basic Spiral Anchor Hanging Kit		
Weight 📩	Small Rectangle: 4.2 kg/pc Square: 8.5 kg/pc Medium Rectangle A: 9.3 kg/pc Medium Rectangle B: 14.6 kg/pc	Large Rectangle: 18.7 Small Circle: 3.1 kg/j Circle: 5.7 kg/pc	
Colour & design	White		
Sound absorption	EN ISO 354 Equivalent Absorption Area Aobj (Sabines)* Small Rectangle Square Medium Rectangle A Medium Rectangle B Large Rectangle Small Circle Circle	125         250         500           0.30         0.60         1.00           0.60         1.20         2.10           0.70         1.30         2.30           0.90         1.70         3.10           1.10         2.30         4.10           0.20         0.40         0.70           0.50         0.90         1.60	1000         2000         4000           1.60         1.50         1.40           3.20         2.90         2.80           3.40         3.40         3.20           4.50         4.50         4.20           5.80         5.70         5.40           1.10         1.00         1.00           2.50         2.30         2.20           ge of the 3 one third octave band values.         1.10
Fire reaction	Euroclass <b>B-s1,d0</b> as per EN 13501-1		-
Light reflectance	87%		
Humidity resistance	90%		
Indoor air quality 🔒 🔒	Image: Constraint of the second sec		
Cleanability	27		
Sustainability	<b>2%</b> EN ISO 14021 80%		
Small Rectangle Medium Rectangle A	Medium Rectangle B	Square	Small Circle     Circle

# ARMSTRONG OPTIMA CANOPY



- Armstrong OPTIMA Canopy is a range of floating ceiling canopies providing high levels of sound absorption and is available in 10 standard shapes and sizes. Armstrong OPTIMA Canopies feature an embedded frame in the back to allow precise alignment and quick, easy to group installations
- Install individually or in groups to create your own unique design
- Enhance acoustics in open areas
- Aesthetically define spaces
- Custom shapes and colours available
- Adjustable to various heights and angles
- Quick and easy to install from the soffit, through a ceiling, directly attached to plasterboard, on a standard suspension system or on a wall





# **ARMSTRONG OPTIMA CANOPY**

Thickness (mm)	<u>↓</u>	30									
Dimensions (mm)	<b></b>	Square Convex Concave Circle Hexagon	1170 × 1170 1170 × 1040 1170 × 1040 Ø1170 1170 × 1010	Available wit	th either <sup>-</sup>	Trapezoid Left Parall Right Para Small Rec Large Rec 1 or 2 pieces ,	llelogram angle tangle	1780 x 2390 x	1020 1020 1170 1170	ded in the co	arton.
System		Deck Hanging Kit Grouping Frame* Drywall Hanging Kit Wall Hanging Kit		*Frc	ame avai	lable in black	and white. A	dditional acc	cessories ava	ilable on req	quest.
Weight	Kg	Square: 6.3 kg/pc Convex: 5.8 kg/pc Concave: 4.9 kg/pc Circle: 5.1 kg/pc Hexagon: 4.5 kg/pc				Trapezoid Left Parall Small Rec Large Rec	elogram, l angle: 9.	Right Para 4 kg/pc	lelogram:	5.4 kg/p	C
Colour & design		White									
Sound absorption		EN ISO 354 Equivalent Absorption Square Convex Concave Circle Hexagon Trapezoid Left Parallelogram Right Parallelogram Small Rectangle Large Rectangle	n Area Aobj (Sabi		125 0.40 0.30 0.30 0.30 0.20 0.30 0.30 0.30 0.70 0.60	250 0.70 0.60 0.70 0.50 0.70 0.70 0.70 0.70 1.10 1.70	500 1.40 1.30 1.10 1.20 0.90 1.20 1.20 1.20 1.20 2.10 2.80 are the ave	1000 2.10 1.90 1.60 1.80 1.30 1.80 1.80 1.80 3.10 4.10 rage of the 3	2000 2.00 2.00 1.70 1.80 1.40 1.90 1.90 1.90 3.10 4.00 one third oc	4000 1.80 1.70 1.50 1.60 1.60 1.60 1.60 1.60 2.70 3.60 tave band va	alues.
Fire reaction	<u></u>	Euroclass <b>B-s1,d0</b> a	s per EN 13501-1								
Light reflectance	7	<b>87</b> %									
Humidity resistance		90%									
Indoor air quality		A E1									
Cleanability		<i>P</i>									
Sustainability		<b>80%</b>	Module 1200 x 3	00 / 1200 ;	x 400 m	ım					
Standard shapes (mm)	International Square	1988 1984 Convex Concave C	entra Circle Hexagon	n n n n n n n n n n n n n n n n n n n	d Left	1176 9000 allelogram p	trans	Small rectar	ngle Larg	2300 je rectangle	

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







# ARMSTRONG OPTIMA CURVED CANOPY

- Armstrong OPTIMA Curved Canopy is a curved floating ceiling canopy which can be installed in either a convex or concave format, creating various design options from a single canopy
- Enhance the acoustics of your office, atrium or any large open space with Armstrong OPTIMA Curved Canopy
- Very easy and quick to install under plasterboard ceilings, existing grid systems or exposed concrete soffits
- Exclusive finish with high light reflectance
- Armstrong OPTIMA Curved Canopy enables you to accentuate an area and express your creativity

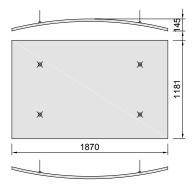




### ARMSTRONG OPTIMA CURVED CANOPY

Thickness (mm)	30								
Dimensions (mm)	Concave or Convex 1870 x 1181 * *Available with either 1 or 2 pieces/carton.								
System	Premium Spiral Anchor Hanging Kit* *Suspension system included in the canopy carton.								
Weight Ka	.6 kg/pc								
Colour & design	White								
Sound absorption	EN ISO 354								
	Equivalent Absorption Area Aobj (Sabines)* 125 250 500 1000 2000 4000								
	Concave or Convex 0.70 1.30 2.40 3.20 3.30 2.80								
	*Values shown are the average of the 3 one third octave band values.								
Fire reaction	Euroclass <b>B-s1,d0</b> as per EN 13501-1								
Light reflectance	87%								
Humidity resistance	90%								
Indoor air quality	A E1								
Cleanability									
Sustainability	ENISO 14021 80%								

Concave installation



Convex installation

# ARMSTRONG OPTIMA BAFFLE



- Armstrong OPTIMA Baffle is a range of high performance acoustical baffles, available in two standard dimensions, with integrated suspension anchor factory fitted for easy alignment and installation. With Armstrong OPTIMA Baffle Curves you can create exciting interiors without compromising acoustic performance, even with modern exposed soffit ceilings
- Modern linear or curved appearance
- Reduce noise levels, increase speech intelligibility and reduce reverberation time in the space
- Install individually or in groups
- High light reflectance for energy savings
- Typically used in schools, offices, leisure centres, transport hubs, etc.





# **ARMSTRONG OPTIMA BAFFLE**

Thickness (mm)	40								
Dimensions (mm)	Long Rectangular 1	200 x 400 800 x 400 200 x 400 800 x 400				ļ	Available in 2	2 pieces / c	arton.
System	Hanging Wire Kit U-Profile grouping option T-Grid Main Runner groupin	ig option							
Weight	Baffle 1200 x 400: 2.7 kg/ Baffle 1800 x 400: 4.0 kg/ Baffle Curves 1200 x 400: 2 Baffle Curves 1800 x 400: 2	рс 2.5 kg/рс							
Colour & design	White								
Sound absorption	EN ISO 354 α <sub>w</sub> = <b>0.60(MH)</b> as per EN I	SO 11654 - <b>Class</b>	с						
	Frequency f (Hz)		125	250	500	1000	2000	4000	
	α <sub>p</sub> Row distances 400m	m	0.15	0.40	0.55	0.85	0.80	0.75	
	NRC = 0.65  as per ASTM C		0.15	0.40	0.55	0.05	0.00	0.75	
Fire reaction	Euroclass <b>B-s1,d0</b> as per El	∖ 13501-1							
Light reflectance	<b>87</b> %								
Humidity resistance	90%								
Indoor air quality 🔒 🔒	Image: Non-State         Image: Non-State           A         E1								
Cleanability	<b>P</b>								
Sustainability	80%								
Armstrong OPTIMA Baffle	40 1200 300 600 300 Module 1200 x 400 mm		300 e 1800 x 40	1800 1200		300	400		
Armstrong OPTIMA Baffle Curves	40 1200 300 600 300 Module 1200 x 400 mm		300	1800 1200		300	006 400		

### **EXPERIENCE MORE POSSIBILITIES**





#### **AMF THERMATEX® Varioline**

With AMF THERMATEX<sup>®</sup> Varioline, the individual design possibilities are almost limitless.

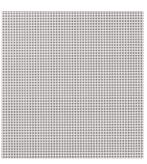
Whichever architectural look and feel you have in mind, you can choose from a selection of mineral tiles with wood, concrete or metal pattern surfaces to achieve the desired visual aesthetic.

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<sup>®</sup> Varioline Motif, Varioline Metal, Varioline Wood and Varioline Urban Style to meet the acoustic, aesthetic and fire performance needs of your project.



Varioline Motif



Varioline Metal



Varioline Wood

Varioline Urban Style

# 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.







# AMF THERMATEX® Alpha

- AMF THERMATEX<sup>®</sup> 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 24/9	0		Tagui	ar 15/90		
Additional edge details	Â	Îegulai 24/ 7	0		legui	аг 137 90 Э		
on request		∞+ <u>24</u>				15		
Thickness (mm)	19	19			19			
Dimensions (mm)	600 x 600 625 x 625	600 x 600 625 x 625				x 600 x 625		
Additional sizes on request	1200 x 600 1250 x 625	1200 x 600				x 600		
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	1000	2000	4000
	α <sub>p</sub>		0.50	0.80	0.90	0.90	1.00	1.00
	NRC = <b>0.90</b> as per ASTM C 423	3						
Sound attenuation	EN ISO 10848-2 D <sub>n,f,w</sub> = <b>28 dB</b> as per EN ISO 717	/-1		CAC = <b>29</b>	<b>dB</b> as pe	r ASTM E	413-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>14 dB</b> as per EN ISO 717-1							
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN 1 <b>Class A</b> as per ASTM E 84	13501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	B-FZ
Light reflectance	88%							
Thermal conductivity	λ = <b>0.040 W/mk</b> as per EN 12	2667						
Air permeability	<b>PM1</b> (≤ 30 m³/hm²) as per DIN	18177						
Humidity resistance	95% RH							
Clean room	<b>ISO 4</b> as per EN ISO 14644-1							
Indoor air quality								
Cleanability								
Sustainability	2%         EN ISO 14021         EN ISO 14025         EX ISO 14025           43%         43%         EX ISO 14025         EX ISO 14025			www.blauer-e	engel.de/uz	132		

# AMF THERMATEX® Alpha One

- AMF THERMATEX<sup>®</sup> Alpha One offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption
- Excellent sound absorption (1.00  $\alpha_{v}$
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications



# AMF THERMATEX® ALPHA ONE

Edge details	<b>Boc</b>	ırd		Tegula	r 24/90	)		Tegul	ar 15/90		
Additional edge details on request				 				×+			
Thickness (mm)	<b>↓</b> 24			24				24			
Dimensions (mm) Additional sizes on request		0 x 600 25 x 625		600 x 625 x					x 600 x 625		
System	Exp	osed demountable -	System C								
Weight	4.0	kg / m²									
Colour	Wh	ite									
Sound absorption	α <sub>w</sub> =	ISO 354 = <b>1.00</b> as per EN ISC equency f (Hz)	) 11654 - <b>(</b>	Class A		125	250	500	1000	2000	4000
		C = <b>1.00</b> as per AST.	M C 123		(	0.55	0.85	1.00	0.95	1.00	1.00
Sound attenuation	EN	ISO 10848-2 " = <b>29 dB</b> as per EN									
Sound reduction		ISO 10140-2 = <b>17 dB</b> as per EN IS	50 <i>7</i> 17-1								
Fire reaction		oclass <b>A2-s 1, d0</b> as <b>ss A</b> as per ASTM E		501-1			RUS KM	1 (G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance	88	%									
Thermal conductivity	λ =	<b>0.040 W/mk</b> as p	oer EN 1260	67							
Air permeability	TÎÎT PM	1 (≤ 30 m³/hm²) as	per DIN 18	3177							
Humidity resistance	95%	% <b>RH</b>									
Clean room	ISC	<b>4</b> as per EN ISO 14	4644-1								
Indoor air quality		A+ E1		and a second and a							
Cleanability											
Sustainability		80 14021 13%	BIOSOLUBLE V	$\mathbf{b}$	E M1>	SFOR BUIL	www.blaue	r-engel.de/uz	132		



# AMF THERMATEX® Alpha HD 19mm

- AMF THERMATEX<sup>®</sup> 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 (SL2: 0.90 a<sub>w</sub> Finesse: 0.95 a<sub>w</sub>)
- Good sound attenuation (34 dB; SL2)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and corridors





### AMF THERMATEX® ALPHA HD 19mm

Edge details		SL2					Finesse				
Additional edge details							Î	- 8			
on request		24									
Thickness (mm)	↓ ↑	19					19				
Dimensions (mm)	k	1800 x 300					600 x 600				
Additional sizes on request											
System		Semi-concealed p Semi-concealed p Semi-concealed -	olanks - Ban	draster, demount	able - Systen	n I.2	Concealed,	demount	able - Syst	em A.2 / /	A.3
Weight	Kg	5.2 kg / m²									
Colour		White									
Sound absorption		EN ISO 354									
		a, = <b>0.90</b> as per		54 - <b>Class A</b>							
		Frequency f (Hz)			125	250	500	1000	2000	4000	
		α <sub>P</sub>	SL2		0.45	0.70	0.80	0.90	1.00	1.00	
		α <sub>w</sub> = <b>0.95</b> as per	en iso 116	54 - <b>Class A</b>							
		Frequency f (Hz)			125	250	500	1000	2000	4000	
		α	Finesse		0.55	0.75	0.85	0.95	1.00	1.00	
		NRC = <b>0.85</b> as p		423							
Sound attenuation		EN ISO 10848-2 D <sub>ofw</sub> = <b>34 dB (SL</b>		NUSO 717-1			35 dB (SL2)		STAN E 112	2 10	
		EN ISO 10140-2	Z as per E	11 130 7 17 - 1		CAC -	33 db (3L2)	as per A	311VI E 413	5-10	
Sound reduction	Щ.	R <sub>w</sub> = <b>17 dB</b> as per	EN ISO 71	7-1							
Fire reaction	<b>E</b>	Euroclass <b>A2-s1,</b> <b>Class A</b> as per A		EN 13501-1		RUS <b>K</b>	M1 (G1, V1	, D1, T1)	as per 12	3-FZ	
Light reflectance		88%									
Thermal conductivity	A	λ = <b>0.060 W/m</b>	I <b>k</b> as per E№	N 12667							
Air permeability	TÎĨT	<b>PM1</b> (≤ 30 m³/h	m²) as per [	DIN 18177							
Humidity resistance	6,6	95% RH									
Clean room	¥	<b>ISO 4</b> as per EN	ISO 14644	-1							
Indoor air quality	+	rate A+	E1	REAL PROPERTY OF THE COLOR							
Cleanability		P									
Sustainability		2% EN 150 14021 38%	EPD N ISO 14025	BIOGOLUBLE WOOL		(	www.blauer-eng	el.de/uz132	)		

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

# AMF THERMATEX® Alpha HD 30/35mm

- AMF THERMATEX<sup>®</sup> Alpha HD 30/35mm 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  $\alpha_w$ )
- Excellent sound attenuation (40 dB: Board, Tegular 15/90 42 dB: Tegular 24/90)
- Excellent light reflectance (88%)
- ISO 4

R

• Ideal for offices, classrooms and learning applications



### AMF THERMATEX® ALPHA HD 30/35mm

### **KNAUFGEILING** Solutions

	_							
Edge details	Board Tegular 15/90			Tegular 24/90				
Additional edge details				Î				
on request				<u>24</u>				
Thickness (mm)	30, 35	30		35				
······								
Dimensions (mm) Additional sizes	600 x 600	600 x 600			600 x 600			
on request								
System	Exposed demountable - System	Exposed demountable - System C						
Weight Kg	8.2 kg / m² (30mm) 9.5 kg / m² (35mm)							
Colour	White	White						
Sound absorption	EN ISO 354							
	$\alpha_{w} = 0.90$ as per EN ISO 11654 Frequency f (Hz)	4 - <b>Class A</b> 125	250 5	00 1000	2000	4000		
		ar 15/90 (30mm) 0.55		.85 1.00	2000 1.00	1.00		
	· · · · ·	ar 24/90 (35mm) 0.35		.85 1.00	1.00	1.00		
	NRC = 0.90 (30mm) as per ASTM C 423         NRC = 0.85 (35mm) as per ASTM C				2 423			
Sound attenuation	EN ISO 10848-2							
					<b>2 dB</b> (35mm) as per EN ISO 717-1			
	CAC = <b>41 dB</b> (30mm) as per A	STM E 413-10	CAC = <b>44</b>	<b>dB</b> (35mm) as	per ASTM	E 413-10		
Sound reduction	EN ISO 10140-2							
-1	R <sub>w</sub> = <b>22 dB</b> (30mm) as per EN I	SO /1/-1	R <sub>w</sub> = <b>25 d</b>	<b>B</b> (35mm) as pe	er EN ISO ,	/ /-		
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN	Euroclass A2-s1, d0 as per EN 13501-1 RUS KM1 (G1, V1, D1, T1) as per 123-FZ						
Light reflectance	88%	88%						
Thermal conductivity	λ = <b>0.060 W/mk</b> as per EN 1	λ = <b>0.060 W/mk</b> as per EN 12667						
Air permeability		<b>PM1</b> (≤ 30 m³/hm²) as per DIN 18177						
Humidity resistance	95% RH	95% RH						
Clean room	<b>ISO 4</b> as per EN ISO 14644-1	<b>ISO 4</b> as per EN ISO 14644-1						
Indoor air quality		A CONTRACTOR						
	A+ E1 I.	ACG						
Cleanability	P P.							
Sustainability	EN ISO 14021	DULUEE WOOL	www.blauer-enge	Lde/uz132				
	39%							



# ARMSTRONG PERLA

- Armstrong PERLA is a C2C Bronze certified range with a smooth laminated finish providing balanced acoustic performance of both sound absorption and sound attenuation
- Good sound absorption (0.65(H)  $\alpha_w$ ) and sound attenuation (36 dB)
- Excellent light reflectance (88%)
- ISO 5
- Ideal for office and learning applications





### **ARMSTRONG PERLA**

Additional edge details	Board	Tegular 24		Tegular 15/90 Î			
on request		<u>24</u>					
Thickness (mm)	↓ ↑ 17	17		17			
Dimensions (mm)	600 x 600	600 x 600		600 x 600			
Additional sizes on request							
System	Exposed demountable - System C	Exposed demountable - System C					
Weight	4.6 kg / m <sup>2</sup>						
Colour	White						
Sound absorption		54 Class C					
	α <sub>w</sub> = <b>0.65(H)</b> as per EN ISO 116 Frequency f(Hz)	125	250	500 1000	2000	4000	
	α <sub>p</sub> NRC = <b>0.70</b> as per ASTM C 423	0.40	0.45	0.60 0.80	0.90	0.90	
Sound attenuation	EN ISO 10848-2 D <sub>n.f.w</sub> = <b>36 dB</b> as per EN ISO 717	7-1	CAC = <b>37 d</b>	<b>B</b> as per ASTM E	413-10		
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>18 dB</b> as per EN ISO 717-1						
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN	13501-1	RUS <b>KM1 (</b>	G1, V1, D1, T1)	as per 123-	Z	
Light reflectance	88%						
Thermal conductivity	λ = <b>0.060 W/mk</b> as per EN 12	λ = <b>0.060 W/mk</b> as per EN 12667					
Air permeability	PM1 (≤ 30 m³/hm²) as per DI	<b>PM1 (≤ 30 m³/hm²)</b> as per DIN 18177					
Humidity resistance	95% RH	95% RH					
Clean room	<b>ISO 5</b> as per EN ISO 14644-1						
Indoor air quality	Ad A B C EN 13964						
Cleanability		2					
Sustainability	8000         8000 <t< th=""><th></th><th>www.blauer-er</th><th>ngel.de/uz132</th><th>CERTIFIED cradle to cradle B&amp;ONZE</th><th></th></t<>		www.blauer-er	ngel.de/uz132	CERTIFIED cradle to cradle B&ONZE		



# ARMSTRONG PERLA dB

- Armstrong PERLA dB is a C2C Bronze certified range with a smooth laminated finish providing enhanced sound attenuation performance for improving the privacy between adjacent spaces
- Good sound absorption (0.60(H)  $\alpha_{\rm w}$ )
- Excellent light reflectance (88%)
- ISO 5
- Ideal for individual offices





### **ARMSTRONG PERLA dB**

Edge details	Board	Tegular 24		Tegular 15/90		
Additional edge details	Î	Î		Î		
on request	<u>   </u>  _ <u>24_</u>					
Thickness (mm)	19	19		19		
Dimensions (mm)	600 x 600	600 x 600		600 x 600		
Additional sizes on request						
System	Exposed demountable - System C					
Weight	8.1 kg ∕ m²					
Colour	White					
Sound absorption						
	α <sub>w</sub> = <b>0.60(H)</b> as per EN ISO 116 Frequency f (Hz)	125	250	500 1000	2000	4000
	α <sub>p</sub> NRC = <b>0.65</b> as per ASTM C 423	0.40	0.40	0.55 0.75	0.85	0.95
Sound attenuation						
	D <sub>n,f,w</sub> = <b>41 dB</b> as per EN ISO 717	-1	CAC = <b>42</b> d	<b>B</b> as per ASTM	E 413-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>21 dB</b> as per EN ISO 717-1					
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN	13501-1	RUS <b>KM1 (</b>	G1, V1, D1, T1	<b>)</b> as per 123-	FZ
Light reflectance	88%					
Thermal conductivity	λ = <b>0.075 W/mk</b> as per EN 12	λ = <b>0.075 W/mk</b> as per EN 12667				
Air permeability	PM1 (≤ 30 m³/hm²) as per DII	<b>PM1 (≤ 30 m³/hm²)</b> as per DIN 18177				
Humidity resistance	95% RH	95% RH				
Clean room	<b>ISO 5</b> as per EN ISO 14644-1					
Indoor air quality	A* A B C EN 13964	M COM MORE D MORE CG				
Cleanability		2				
Sustainability	39%		www.blauer-er	ngel.de/uz132	CERTIFIED Cradle to Cradle BRONZE	



# ARMSTRONG PERLA OP 0.95

- Armstrong PERLA OP 0.95 is a Cradle to Cradle Certified<sup>®</sup> Bronze range with a smooth laminated finish and excellent Class A sound absorption, making it ideal for open plan areas
- Excellent sound absorption (0.95 α<sub>w</sub>)
- PERLA OP 19mm planks are available, see separate datasheet
- Good light reflectance (85%)
- ISO 5
- Ideal for open spaces (call centres, libraries, cafeterias, etc.)



### **ARMSTRONG PERLA OP 0.95**

Edge details	Board	Tegular 24		Tegular 1	5/90		
Additional edge details on request		Û 					
Thickness (mm)	15	15		15			
Dimensions (mm) Additional sizes on request	600 x 600 675 x 675 1200 x 600	600 x 600 675 x 675 1200 x 600		600 x 6 675 x 6 1200 x 6	575		
System	Exposed demountable - System C						
Weight	2.4 - 2.6 kg/m²						
Colour	White						
Sound absorption	EN ISO 354 $\alpha_{w} = 0.95$ as per EN ISO 11654 - Frequency $f(Hz)$ $\alpha_{p}$ Board, Tegula NRC = 0.90 as per ASTM C 423	125	250 0.80	500 0.95	1000 0.90	2000 1.00	4000 1.00
Sound attenuation	EN ISO 10848-2						
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>12 dB</b> as per EN ISO 717-1						
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN 13 Class A as per ASTM E 84	3501-1	RUS KM1	(G1, V1,	, D1, T1)	as per 123	B-FZ
Light reflectance	85%						
Thermal conductivity	λ = <b>0.040 W/mk</b> as per EN 126	67					
Humidity resistance	95% RH						
Clean room	<b>ISO 5</b> as per EN ISO 14644-1						
Indoor air quality	A+         E1         IAC	PROPUE					
Cleanability		2					
Sustainability	ENISO 14021         EDU SO 14025         EC ENIZO 04025           44 - 66%	A WOOL					



# ARMSTRONG PERLA OP 19mm

- Armstrong PERLA OP 19mm Planks provide a smooth white laminated finish, and with excellent Class A sound absorption and good sound attenuation, they are the ideal solution for both open plan and corridor applications
- Excellent sound absorption (0.90  $\alpha_{\!\scriptscriptstyle w}$ ) and good sound attenuation (34 dB)
- Good light reflectance (85%)
- ISO 5
- Ideal for open spaces (call centres, libraries, cafeterias, etc.) as well as corridors



#### **ARMSTRONG PERLA OP 19mm**

Edge details		Board		SL2						
Additional edge details on request										
Thickness (mm)	↓ ↑	19		19						
Dimensions (mm) Additional sizes on request	<b></b>	1500 x 600 1800 x 600			00 x 300 00 x 300					
System		Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3		Sen		d planks -	Bandraster	r, demounte	1.3 able - Systen le - System F	
Weight	Kg	5.2 kg / m <sup>2</sup>								
Colour		White								
Sound absorption		EN ISO 354 $\alpha_{w} = 0.90$ as per EN ISO 11654 - Class A								
		Frequency f(Hz)		25	250	500	1000	2000	4000	
		α <sub>p</sub> NRC = <b>0.85</b> as per ASTM C 423	0.4	45	0.70	0.80	0.90	1.00	1.00	
Sound attenuation		EN ISO 10848-2 D <sub>n,f,w</sub> = <b>34 dB</b> as per EN ISO 717-1		(	CAC = <b>35</b>	<b>dB</b> as pe	r ASTM E	413-10		
Fire reaction	<u>F</u>	Euroclass <b>A2-s1, d0</b> as per EN 13501-1			RUS KM1	(G1, V1	, D1, T1)	as per 12	3-FZ	
Light reflectance	7	85%								
Thermal conductivity		λ = <b>0.060 W/mk</b> as per EN 12667								
Air permeability	TÎÎT	<b>PM1 (≤ 30 m³/hm²)</b> as per DIN 18177								
Humidity resistance	44	95% RH								
Clean room	¥	<b>ISO 5</b> as per EN ISO 14644-1								
Indoor air quality	<b>(</b>	A+ E1 IACG								
Cleanability		<b>P</b>								
Sustainability		Reference         Reference <t< th=""><th>Deniorit</th><th>(</th><th>www.blauer</th><th>engel.de/uz</th><th></th><th>CERTIFIED cradle to cradle BRONZE</th><th></th><th></th></t<>	Deniorit	(	www.blauer	engel.de/uz		CERTIFIED cradle to cradle BRONZE		

# ARMSTRONG PERLA OP 1.00

17:28

- Armstrong PERLA OP 1.00 is a C2C Bronze certified range with a smooth laminated finish and offers excellent sound absorption (1.00  $\alpha_w$ ), making it ideal for open plan areas
- Excellent sound absorption (1.00  $\alpha_w$ )
- Good light reflectance (85%)
- ISO 4
- Ideal for open spaces (call centres, libraries, cafeterias, etc.)



#### **ARMSTRONG PERLA OP 1.00**

Edge details	Board	Tegular 24		Tegular	15/90		
Additional edge details on request					-		
Thickness (mm)	20	20		20			
Dimensions (mm) Additional sizes on request	600 × 600 675 × 675 1200 × 600	600 x 600 675 x 675 1200 x 600		600 x 675 x 1200 x	675		
System	Exposed demountable - System C						
Weight 🧖	3.1 kg / m²						
Colour	White						
Sound absorption	EN ISO 354 $ \alpha_w = 1.00 $ as per EN ISO 11654 - Frequency $f(Hz)$ $ \alpha_p$ NRC = 0.95 as per ASTM C 423	<b>Class A</b> 12 0.5		500 0.95	1000 0.95	2000 1.00	4000 1.00
Sound attenuation	EN ISO 10848-2 D <sub>n.f.w</sub> = <b>25 dB</b> as per EN ISO 717-	-1	CAC = <b>25</b> d	<b>dB</b> as per <i>i</i>	ASTM E	413-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>12 dB</b> as per EN ISO 717-1						
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN	13501-1	RUS <b>KM1</b> (	(G1, V1, I	<b>D1, T1)</b> (	as per 123	-FZ
Light reflectance	85%						
Thermal conductivity	λ = <b>0.040 W/mk</b> as per EN 12	667					
Humidity resistance	95% RH						
Clean room	<b>ISO 4</b> as per EN ISO 14644-1						
Indoor air quality 📑	A+ E1 IAC	PROD					
Cleanability	2 2.	2					
Sustainability	800         800 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						



 The laminated finish of AMF THERMATEX<sup>®</sup> Acoustic creates a smooth, white appearance and provides good levels of sound absorption and excellent sound attenuation

1-1

- Good sound absorption (0.65 (H) α<sub>w</sub>)
- Excellent sound attenuation (40 dB; SL2)
- High sound attenuation (38 dB; Board, Tegular 24, Tegular 15, Tegular 15/90, Finesse, Vector)
- Excellent light reflectance (88%)
- ISO 3
- Ideal for retail, offices and meeting rooms, installation rooms or production areas



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# **AMF THERMATEX® ACOUSTIC**

<b>Edge details</b> Additional edge details		Board Û	Tegular 24	Tegular 15	Tegular 15/90	SL2		Finesse
on request Thickness (mm)	_↓_	19	19	19	19	19	24	- ' <u> 24</u>   e' 19
Dimensions (mm) Additional sizes on request	<u>↑</u>	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625	600 x 600	600 x 600	1200 x 300 1500 x 300 1800 x 300 2000 x 300 2500 x 300	600 x 600 625 x 625	600 x 600 625 x 625
System		Exposed dem	nountable - Sy	ystem C		Semi-concealed planks, demountable System 1.3 Semi-concealed planks - Bandraster, demountable - System 1.2 Semi-concealed planks - Corridor, demountable - System F.2	System C	Concealed, demountable - System A.2 / A.3
Weight	Kg	5.0 - 8.6 kg	$/ m^2$					
Colour	<b>E</b>	White						
Sound absorption		Frequency α <sub>p</sub> α <sub>p</sub>	<b>H)</b> as per EN f (Hz) Boa	rd, Tegular 2 Jlar 15/90, I tor	4, Tegular 15,	0.50 0	250         500         1000           .45         0.60         0.85           .40         0.60         0.80	200040000.950.950.951.00
Sound attenuation		D <sub>n,f,w</sub> = <b>40 d</b>	<b>B</b> (Board, Teg <b>B</b> (SL2) as per	r EN ISO 717	-1		nesse) as per EN ISO 7 15/90, Vector, Finesse)	
Sound reduction	¥.	EN ISO 101 R <sub>w</sub> = <b>22 dB</b>	40-2 as per EN IS	0 717-1				
Fire reaction	<b>F</b>		<b>2-s1, d0</b> as per ASTM E		)]-]	RUS <b>KM1 (</b>	<b>G1, V1, D1, T1)</b> as pe	er 123-FZ
Light reflectance	7	88%						
Thermal conductivity	A	λ = <b>0.060</b>	<b>W/mk</b> as p	er EN 12667	7			
Air permeability	TÎÎT	<b>PM1</b> (≤ 30	m³∕hm²) as ∣	per DIN 1817	77			
Humidity resistance		95% RH						
Clean room	Ŵ	<b>ISO 3</b> as pe	er EN ISO 14	.644-1				
Indoor air quality	<b>(</b>	A+	E1	REPARCONNER				
Cleanability		Þ	2					
Sustainability		<mark>%</mark> ен ISO 14021 41-49%	EN ISO 14025	BIOSOLUBLE WOOL				



# AMF THERMATEX® dB Acoustic

- AMF THERMATEX<sup>®</sup> 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)  $\alpha_{w}$ )
- 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



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## AMF THERMATEX® dB ACOUSTIC

Edge details		Board			Tegular A	24			Tegul	ar 15 <del>1</del>		
Additional edge details on request				]	∞+ <u></u>							
Thickness (mm)	↓ ↑	24, 30		:	24				24			
Dimensions (mm) Additional sizes on request	<b></b> ,	600 x 600			600 x 6	500			600 :	x 600		
System		Exposed d	emountable - Sy	ystem C								
Weight		8.6 - 10.6	kg∕m²									
Colour		White										
Sound absorption		EN ISO 35 α <sub>w</sub> = <b>0.65</b> Frequency	<b>(H)</b> as per EN I f (Hz)				125	250	500	1000	2000	4000
		α <sub>P</sub>	Board (24mm), Board (30mm)	, Tegular 24	4, Tegula	r 15	0.40	0.45	0.60	0.80	0.95	0.95
		α <sub>P</sub> NRC = <b>0.7</b>	<b>O</b> as per ASTM	C 423			0.55	0.40	0.05	0.05	0.90	0.75
Sound attenuation		EN ISO 10 D <sub>n,f,w</sub> = <b>41</b>		ber EN ISC		0		D <sub>n,f,w</sub> = <b>43</b>	<b>dB</b> (30m	m) as per	en ISO 71	7-1
Sound reduction	<b>¥</b>	EN ISO 10 R <sub>w</sub> = <b>24 de</b>	140-2 § (24mm) as per	r EN ISO 7	717-1			R <sub>w</sub> = <b>25 c</b>	<b>IB</b> (30mm)	as per EN	N ISO 717	.1
Fire reaction	<b>F</b>		<b>2-s1, d0</b> as pe s per ASTM E 84		01-1			RUS KM	1 (G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance		88%										
Thermal conductivity	ł	λ = <b>0.075</b>	<b>W/mk</b> as per	EN 12667	7							
Air permeability	TIT	<b>PM1</b> (≤ 30	) m³/hm²) as pe	er DIN 181	77							
Humidity resistance	<b>\$</b>	95% RH										
Clean room	*	<b>ISO 4</b> as p	per EN ISO 146	44-1								
Indoor air quality	Ŧ	A+	E1	ACCG	1091 1.5							
Cleanability		P	P.									
Sustainability		EN ISO 14021 39%	EN ISO 14025	BIOSOLUBLE WO		UNSSION C. M1 A. A. A. A. A. A. A. A. A. A. A. A. A.		www.blaue	r-engel.de/uz	132		



Альфред Бернард Нобель 21.10.1833 - 10.12.1876 Dp. Якщо у мене с тисяча Ідей, і тілься одно з них внявляється пладною, в задоволяния.

# AMF THERMATEX® Antaris

• AMF THERMATEX<sup>®</sup> Antaris is a white, laminated mineral tile and offers Class A sound absorption. AMF THERMATEX<sup>®</sup> Antaris provides fire protection and a hygienic ceiling solution

Com

California.

- Excellent sound absorption (0.90 α<sub>w</sub>)
- High light reflectance (86%)
- ISO 5
- Ideal for retail, offices and meeting rooms, installation rooms or production areas



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## **AMF THERMATEX® ANTARIS**



Edge details	Board	Tegular 24/90	Tegulo	ar 15/90				
Additional edge details	Û	Ŷ	ť					
on request	  24	<u>∞</u> 24		5				
Thickness (mm)	<b>↓</b> 15	15	15					
Dimensions (mm)	600 x 600	600 x 600		x 600				
Additional sizes on request	675 x 675 1200 x 600	675 x 675 1200 x 600		x 675 x 600				
System	Exposed demountable	- System C						
Weight /	2.9 kg / m²							
Colour	White							
Sound absorption		CO 11/54 C						
	α <sub>w</sub> = <b>0.90</b> as per EN I Frequency f (Hz)	50 11654 - <b>Class A</b>	125	250	500	1000	2000	4000
	α <sub>P</sub>		0.50	0.80	0.85	0.85	1.00	1.00
	NRC = <b>0.90</b> as per AS	STM C 423						
Sound attenuation	EN ISO 10848-2							
	D <sub>n,f,w</sub> = <b>28 dB</b> as per E	N ISO 717-1	CAC	= <b>29 dB</b> as	per AST <i>N</i>	E 413-10		
Sound reduction	EN ISO 10140-2							
	R <sub>w</sub> = <b>13 dB</b> as per EN	ISO 717-1						
Fire reaction	Euroclass <b>A2-s1, d0</b> a <b>Class A</b> as per ASTM		RUS	(M1 (G1,	V1, D1, 1	<b>11)</b> as per	123-FZ	
Light reflectance	86%							
Thermal conductivity	λ = <b>0.040 W/mk</b> as	s per EN 12667						
Humidity resistance	95% RH							
Clean room	ISO 5 as per EN ISO	14644-1						
Indoor air quality	Image: A+         E1	All COM						
Cleanability	Z Z							
Sustainability	EN ISO 14021 43%	BOSOLUBLE WOOL	who show crass se <b>M1&gt;</b> rates tew on work	www.blauer	engel.de/uz	132		



# AMF THERMATEX® Antaris C

- AMF THERMATEX<sup>®</sup> Antaris C tiles are made from a new generation biosoluble mineral wool, clay and starch and offers excellent fire resistance. The smooth, white laminate finish provides good levels of sound absorption for acoustic comfort
- Good sound absorption (0.70  $\alpha_{\rm w})$
- High light reflectance (86%)
- ISO 5
- Ideal for retail, offices and meeting rooms, installation rooms or production areas



# AMF THERMATEX® ANTARIS C

Edge details		Board			Tegular 24	4		Tegul	ar 15		
Additional edge details on request						=					
Thickness (mm)	↓ ↑	13			13			13			
Dimensions (mm) Additional sizes on request	<b> </b>	600 x 600 1200 x 600			600 x 60	0		600	x 600		
System		Exposed den	nountable - Sy	ystem C							
Weight		3.0 kg / m²									
Colour		White									
Sound absorption		Frequency f α <sub>P</sub>	s per EN ISO		Class C	125 0.40	250 0.55	500 0.60	1000 0.75	2000 0.95	4000 1.00
Sound attenuation		EN ISO 108 D <sub>n,f,w</sub> = <b>30 di</b>	48-2 <b>3</b> as per EN IS	SO 717-1			CAC = <b>30</b>	<b>dB</b> as pe	r ASTM E	413-10	
Sound reduction	¥.	EN ISO 1014 R <sub>w</sub> = <b>18 dB</b> c	40-2 15 per EN ISC	) 717-1							
Fire reaction	ক্ত	Euroclass A2	<b>2-s1, d0</b> as p	oer EN 135	501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance	7	86%									
Thermal conductivity	<b>I</b>	λ = <b>0.060 V</b>	<b>V/mk</b> as per	r EN 1266	37						
Humidity resistance	4,4	90% RH									
Clean room	*	<b>ISO 5</b> as pe	r EN ISO 146	644-1							
Indoor air quality	<b>(</b>	A+	E1	CONFINITION OF CONFIN	AND CONTRACTOR						
Cleanability		P	R								
Sustainability		ек 150 14021 43%	BIOSOLUBLE WOOL	UNSSION CL MIL MIL Mayer of	NIOT.	ww.blauer-eng	el.de/uz132				



# AMF THERMATEX® Thermofon

- AMF THERMATEX<sup>®</sup> 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)  $\alpha_{\rm w}$ )
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications





# **AMF THERMATEX® THERMOFON**

Edge details		Board			Tegular 24	4/90			Tegulai	15/90	
Additional edge details on request		Î			Î	_			Û 		
		<u> </u>			24				15	-	
Thickness (mm)	<u>↓</u>	15			15				15		
Dimensions (mm)	····)	600 x 600 625 x 625			600 x 6 625 x 6				600 x 625 x		
Additional sizes on request		1200 x 600 1250 x 625	)		1200 x 6				1200 x		
System		Exposed de	mountable -	System C							
Weight	Kg	2.9 kg / m²									
Colour		White									
Sound absorption					Class D						
		Frequency		NISO 11654	- Class B	125	250	500	1000	2000	4000
		α <sub>P</sub>				0.55	0.75	0.75	0.80	0.95	1.00
		NRC = <b>0.8</b>	<b>5</b> as per AST/	M C 423							
Sound attenuation		EN ISO 108 D <sub>n,f,w</sub> = <b>28 d</b>	348-2 <b>IB</b> as per EN	ISO 717-1		CAG	C = <b>29 dB</b>	as per AS	TM E 413-	10	
Sound reduction	¥	EN ISO 101 R <sub>w</sub> = <b>13 dB</b>	140-2 as per EN IS	0 717-1							
Fire reaction	<b>F</b>		<b>2-s1, d0</b> as per ASTM E	per EN 1350 84	)] - ]	RUS	5 KM1 (G	1, V1, D1	l <b>, T1)</b> as p	oer 123-FZ	
Light reflectance	7	88%									
Thermal conductivity	A	$\lambda = 0.040$	<b>W/mk</b> as p	er EN 12667	7						
Humidity resistance	•••	95% RH									
Clean room	***	<b>ISO 4</b> as pe	er EN ISO 14	644-1							
Indoor air quality	<b></b>	A+	E1	Second States							
Cleanability		Z	P.								
Sustainability		2% EN ISO 14021 42%	EN ISO 14025	BIOSOLUBLE WOOL	WHOSENON CLARS	www	.blauer-engel	.de/uz132			



# AMF TOPIQ<sup>®</sup> Prime

- AMF TOPIQ<sup>®</sup> Prime is a very light stone wool panel with a modern, smooth surface.
- Excellent sound absorption (0.95 α<sub>w</sub>)
- Excellent light reflectance (88%)
- ISO 5
- Ideal for offices, retail, classrooms, learning applications and underground garages





#### AMF TOPIQ<sup>®</sup> PRIME

Edge details	Board	Tegular 24/	90		Tegulo	ar 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 × 600 625 × 625 1200 × 600			625	x 600 x 625 x 600		
System	Exposed demountable - System	m C						
Weight	2.1 kg ∕ m²							
Colour	White							
Sound absorption	EN ISO 354 $ \alpha_{w} = 0.95 $ as per EN ISO 116 Frequency $f(Hz)$ $ \alpha_{p}$				500 0.95	1000 0.90	2000 1.00	4000 1.00
Sound attenuation	NRC = <b>0.90</b> as per ASTM C 4 EN ISO 10848-2 D <sub>n,f,w</sub> = <b>24 dB</b> as per EN ISO 2		CA	C = <b>24 d</b>	<b>B</b> as per	ASTM E 4	13-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>13 dB</b> as per EN ISO 712	7-1						
Fire reaction	Euroclass <b>A1</b> as per EN 1350 <b>Class A</b> as per ASTM E 84	1-1	RUS	6 <b>KM2 (</b>	G1, V2,	, D1, T1)	as per 123	3-FZ
Light reflectance	88%							
Humidity resistance	100% RH							
Clean room	<b>ISO 5</b> as per EN ISO 14644-	-1						
Indoor air quality		AR COLLER Course Prototo IAC						
Cleanability	<b>?</b>							
Sustainability	Возсилие и мост           Возсилие и мост           Возсилие и мост           Возсилие и мост           32-33%	www.	blauer-engel.de/	uz132				



# AMF TOPIQ<sup>®</sup> Efficient Pro

- AMF TOPIQ<sup>®</sup> Efficient Pro is a very light stone wool panel with a modern, smooth surface.
- Excellent sound absorption (1.00 α<sub>w</sub>)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and underground garages





## AMF TOPIQ<sup>®</sup> EFFICIENT PRO



Edge details	Board	Tegular 24/9	90		Tegulo	ar 15/90		
Additional edge details on request					8			
Thickness (mm)	20	20			20			
Dimensions (mm) Additional sizes on request	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600			625	x 600 x 625 x 600		
System	Exposed demountable - System (	C						
Weight Kg	2.8 kg / m²							
Colour	White							
Sound absorption	EN ISO 354 $ \alpha_{w} = 1.00 $ as per EN ISO 11654 Frequency $f(Hz)$ $ \alpha_{p}$ NRC = 0.95 as per ASTM C 423		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 <sub>n.f.w</sub> = <b>25 dB</b> as per EN ISO 717	7-1	C	CAC = <b>25</b>	<b>dB</b> as per	- ASTM E 4	13-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>15 dB</b> as per EN ISO 717-1							
Fire reaction	Euroclass A1 as per EN 13501-1	1	R	US <b>KM2</b>	(G1, V2	, D1, T1)	as per 12	3-FZ
Light reflectance	88%							
Humidity resistance	100% RH							
Clean room	<b>ISO 4</b> as per EN ISO 14644-1							
Indoor air quality 📑		AIR COLLER Surging ED PRODUCT						
Cleanability		1997 1997 1997						
Sustainability	СТ 150 15021 ЗЗЗ%	NON CLASS SECOND	blauer-engel.	<b>de</b> /uz132				



# ARMSTRONG OPTIMA

bank



- Armstrong OPTIMA offers a smooth surface and excellent sound absorption to improve the acoustic comfort of a space
- Excellent sound absorption (0.90 NRC) for 15mm and (0.95 NRC) for 20mm & 25mm tiles
- Excellent light reflectance (88%)
- Ideal for open spaces (call centres, libraries, cafeterias, etc.)





# **ARMSTRONG OPTIMA**

Edge details	Board	Tegular 24	Tegular 15/90	Vector	r	·				
Additional edge details on request		÷								
Thickness (mm)	15, 20, 25	15, 20, 25	15, 20, 25	20, 23	5					
Dimensions (mm) Interpretendent States (mm) Not all modules are available in all thicknesses, please contact us for further information	600 x 600 1200 x 600 1200 x 1200 1800 x 600 2400 x 600	600 x 600 1200 x 600 1200 x 1200 1800 x 600	600 x 600 1200 x 150 1200 x 300 1200 x 600 1200 x 1200 1800 x 600	1200 1200	x 600 x 600 x 1200 x 600					
System	Exposed demo	cosed demountable - System C Semi-concealed tiles, demountable - System C								
Weight	15mm: 1.8 kg/ 20mm: 2.3 kg/ 25mm: 2.8 kg/	m <sup>2</sup>								
Colour	White, Black (n	ot all modules avai	lable, please conte	act us for	further inf	formation)				
Sound absorption	20mm th 25mm th NRC = <b>0.90</b> * (	z) nickness* nickness* nickness* 15mm thickness) 20mm & 25mm th	ickness)	125 0.46 0.57 0.63	250 0.98 1.00 0.99	500 0.97 0.92 0.93	1000 0.76 0.83 0.90	2000 0.94 0.99 1.00	4000 0.97 0.99 1.00	
Fire reaction	Class A as per	ASTM E-84								
Light reflectance	88%									
Humidity resistance	95% RH									
Cleanability	Z									
Sustainability	ENISO 14021 Up to 85%	Up to 85%								

# Healthcare & Hygiene

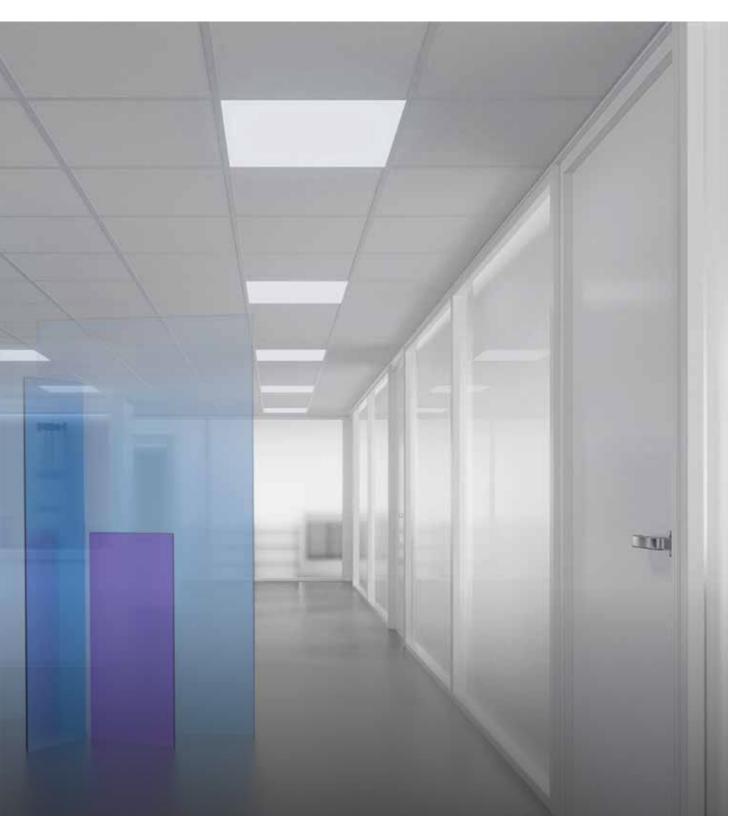




UNDER CONSTANT SCRUTINY AND DEMANDING THE HIGHEST LEVELS OF COMFORT AND CLEANLINESS, HEALTHCARE SETTINGS GO THROUGH CONTINUAL CHANGES TO ENSURE THE BEST POSSIBLE ENVIRONMENT FOR PATIENTS AND HEALTHCARE PROFESSIONALS.

Reaching the essential criteria for individual risk zones, our easy-to-clean products deliver a strong acoustic performance, with impressive sound-absorbing and soundblocking 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<sub>w</sub>)
- 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					 ∞+24			<u></u>			
Thickness (mm)	$\frac{\checkmark}{\uparrow}$	20			20			20			
Dimensions (mm) Additional sizes on request	<b>k</b>	600 x 600 1200 x 600			600 x 6 1200 x 6				x 600 x 600		
System		Exposed der	mountable - Sy	ystem C							
Weight		3.3 kg / m²									
Colour		White									
Sound absorption		Frequency f	s 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 <sub>n,f,w</sub> = <b>25 d</b>	348-2 <b>B</b> as per EN IS	SO 717-1	1		CAC = <b>25</b>	<b>dB</b> as pe	er ASTM E	413-10	
Fire reaction	ক্ত		<b>2-s1, d0</b> as p per ASTM E 8		3501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	8-FZ
Light reflectance		85%									
Thermal conductivity	J	$\lambda = 0.040$ \	<b>N/mk</b> as pe	r EN 126	67						
Humidity resistance	4,4	95% RH									
Clean room	<b>W</b>	<b>ISO 3</b> as pe	er EN ISO 146	544-1							
Indoor air quality	+	A+	E1	CRANK CONCERNMENT	ROD						
Cleanability		P	R		388°		°₹+				
Sustainability		<u>к</u> и колоничение Калание С С С С С С С С С С С С С С С С С С С	EN ISO 14025		Ð						



# 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		Tegul	ar 15		
Additional edge details on request				<u></u>			
Thickness (mm)	17	17		17			
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						
Weight	4.5 kg / m²						
Colour 🧬	White						
Sound absorption	EN ISO 354		125 25 ).35 0.4		1000 0.70	2000 0.85	4000 0.90
Sound attenuation	EN ISO 10848-2 D <sub>n,f,w</sub> = <b>36 dB</b> as per EN ISO 717-	1	CAC =	= <b>37 dB</b> as pe	er ASTM E	413-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>18 dB</b> as per EN ISO 717-1						
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN 13	3501-1	RUS K	( <b>M1 (G1, V</b> 1	, <b>D1, T1</b> )	as per 123	3-FZ
Light reflectance	85%						
Thermal conductivity	λ = <b>0.060 W/mk</b> as per EN 126	667					
Humidity resistance	95% RH						
Clean room	<b>ISO 4</b> as per EN ISO 14644-1						
Indoor air quality 🔒 😭	EN 13964	rofine Profile Profile CG					
Cleanability			₿ #<	+	8	~	
Sustainability	2%         EN ISO 14021           42%         EN ISO 14025	ILE WOOL					



# 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  $\alpha_w$ )
- 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								5				
Thickness (mm)	<ul> <li>↓</li> <li>↑</li> </ul>	15		15			15					
Dimensions (mm) Additional sizes on request	<u>k</u>	600 x 600 1200 x 600		600 x 600			600	x 600				
System		Exposed demo	Exposed demountable - System C									
Weight	Kg	2.5 kg / m²	2.5 kg / m <sup>2</sup>									
Colour		White										
Sound absorption		Frequency $f(1)$	per EN ISO 11654 Hz) as per ASTM C 42		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 <sub>n,f,w</sub> = <b>25 dB</b> as per EN ISO 717-1 CAC = <b>25 dB</b> as per ASTM E										
Fire reaction	<b>E</b>	Euroclass <b>A2</b>	<b>-s1, d0</b> as per EN	1 13501 - 1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ						
Light reflectance		85%										
Thermal conductivity	ł	λ = <b>0.040 W</b>	/ <b>mk</b> as per EN 1	2667								
Humidity resistance	•	95% RH										
Clean room	*	ISO 5 as per	en ISO 14644-1									
Indoor air quality		A+	EN 13964	A AR COM								
Cleanability		Z	P.									
Sustainability		EN ISO 14021 66%	EN ISO 14025									



# AMF THERMATEX® Aquatec



- Excellent sound absorption (0.90  $\alpha_w$ )
- Excellent light reflectance (88%)
- ISO 3
- Ideal for healthcare environments, laboratories, treatment rooms, locker rooms or shower areas



# **AMF THERMATEX® AQUATEC**

Edge details		Board	Tegular 24/90	Tegular 15/90	Finesse							
Additional edge details		Ŷ	Ŷ	Û	Û							
on request			24		24	10	<b>₽-</b>					
Thickness (mm)	<u>↓</u> ↑	19	19	19	19							
Dimensions (mm)	····	600 x 600	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 dem	ountable - Syster	n C	Concealed, demountable - System A.2 / A.3							
Weight	Kg	5.2 kg / m²										
Colour	<b>E</b>	White										
Sound absorption		EN ISO $354$	per EN ISO 1163	54 - <b>Class A</b>								
		Frequency f (			125	250	500	1000	2000	4000		
		α <sub>P</sub>		0.60	0.70	0.85	0.90	1.00	1.00			
		NRC = <b>0.90</b>										
Sound attenuation		EN ISO 1084 D <sub>n,f,w</sub> = <b>29 dB</b>	18-2 as per EN ISO 7	717-1	CAC = <b>29 dB</b> as per ASTM E 413-10							
Sound reduction	¥	EN ISO 10140-2 R <sub>w</sub> = <b>16 dB</b> as per EN ISO 717-1										
Fire reaction	<b>F</b>	Euroclass <b>A2</b> : <b>Class A</b> as pe	<b>-s1, d0</b> as per El er ASTM E 84	√ 13501-1	RUS <b>KM1 (G1, V1, D1, T1)</b> as per 123-FZ							
Light reflectance	7	88%										
Thermal conductivity	A	$\lambda = 0.060 W$	<b>/mk</b> as per EN	12667								
Air permeability	<u>रीरि</u>	<b>PM1</b> (≤ 30 m	<sup>3</sup> /hm²) as per D	IN 18177								
Humidity resistance	44	100% RH										
Clean room	¥W	ISO 3 as per	en ISO 14644-	1								
Indoor air quality	+											
Cleanability		P	2									
Sustainability		EN ISO 14021 35%			uer-engel.de/	Jz132						

# AMF THERMATEX® Aquatec Hygena

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- AMF THERMATEX<sup>®</sup> 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  $\alpha_w$ )
- 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

Educ dotaile		Board										
<b>Edge details</b> Additional edge details		Ĥ										
on request												
Thickness (mm)	<ul> <li>↓</li> <li>↑</li> </ul>	19										
Dimensions (mm)	····+···>	600 x 600 625 x 625										
Additional sizes on request		023 X 023										
System		Exposed demo	ountable - S	ystem C								
Weight	Kg)	5.2 kg / m²										
Colour		White										
Sound absorption		EN ISO 354 α_ = <b>0.90</b> as	ner FN ISO	11654 - <b>Cl</b> e	Δ 225							
		Frequency f (				125	250	500	1000	2000	4000	
		α <sub>P</sub>				0.60	0.70	0.85	0.90	1.00	1.00	
		NRC = <b>0.90</b> c	as per ASTA	A C 423								
Sound attenuation		EN ISO 1084 D <sub>n,f,w</sub> = <b>29 dB</b>		ISO 717-1			CAC = <b>2</b> 9	<b>) dB</b> as pe	er ASTM E	413-10		
Sound reduction	¥	EN ISO 10140 R <sub>w</sub> = <b>16 dB</b> as		) 717-1								
Fire reaction	ক্ত	Euroclass <b>A2-</b> Class A as pe			1-1		RUS KM	I (G1, V1	, D1, T1)	as per 12	3-FZ	
Light reflectance		88%										
Thermal conductivity	J	λ = <b>0.060 W</b>	<b>/mk</b> as pe	er EN 12667								
Air permeability	<u>रीरी</u>	<b>PM1</b> (≤ 30 m	³/hm²) as p	oer DIN 1817	77							
Humidity resistance	<b>\$</b> \$	100% RH										
Clean room	¥	ISO 3 as per	en ISO 140	644-1								
Indoor air quality	+	A+	E1	Source Parts								
Cleanability		P	P.			Q						
Sustainability		EN ISO 14021 35%	BIOSOLUBLE WOOL									



# AMF THERMATEX® Thermaclean

- AMF THERMATEX<sup>®</sup> 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)	↓ ↑	15										
Dimensions (mm)	·····	600 x 600										
Additional sizes on request		625 x 625										
System		Exposed de	mountable - S	ystem C								
Weight	Kg	3.6 kg / m²										
Colour		White										
Sound absorption			4 <b>L)</b> as per EN I	SO 11454								
		Frequency		30 11034		125	250	500	1000	2000	4000	
		α <sub>P</sub>				0.35	0.20	0.10	0.10	0.10	0.10	
		NRC = <b>0.15</b>	as per ASTM	C 423								
Sound attenuation		EN ISO 10848-2 D <sub>n,f,w</sub> = <b>34 dB</b> as per EN ISO 717-1 CAC = <b>36 dB</b> as per ASTM E 413-10										
Sound reduction	¥	EN ISO 101 R <sub>w</sub> = <b>19 dB</b>	140-2 as per EN ISC	D 717-1								
Fire reaction	<b>E</b>	Euroclass <b>A</b>	<b>2-s3, d0</b> as p	per EN 135	01-1	RUS K	(M1 (G1,	V1, D1,	<b>T1)</b> as per	123-FZ		
Light reflectance		81%										
Thermal conductivity		λ = <b>0.060</b> γ	<b>W/mk</b> as pe	er EN 1266	7							
Air permeability	<u>t</u> îît	<b>PM1</b> (≤ 30	m³∕hm²) as p	oer DIN 181	77							
Humidity resistance	<b>\$</b> \$	95% RH										
Clean room	¥	<b>ISO 4</b> as pe	er EN ISO 140	644-1								
Indoor air quality		A+	E1									
Cleanability		<u>a</u>	P.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
Sustainability		EN 150 14021 45%	BIOSOLUBLE WOOL									

# AMF THERMATEX® Alpha Hygena

- AMF THERMATEX<sup>®</sup> Alpha Hygena offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption. The surface is washable and anti-microbial (resistant to the growth of germs, bacteria and fungi).
- + Excellent sound absorption (0.95  $\alpha_{\rm w})$
- Excellent light reflectance (88%)
- ISO 4
- Ideal for healthcare facilities in general, kitchens, food industries, laboratories, etc.





#### AMF THERMATEX® ALPHA HYGENA

Edge details		Board												
Additional edge details on request		Î												
Unrequesi		<u> </u>												
Thickness (mm)	↓ ↑	19												
Dimensions (mm) Additional sizes on request	<b>  </b>	600 x 600												
System		Exposed der	mountable - Sy	ystem C										
Weight	Kg	3.3 kg / m²												
Colour		White												
Sound absorption		EN ISO 354		11454 6										
		Frequency	s per EN ISO <sup>f</sup> (Hz)	11034 - <b>CI</b>	ass A	125	250	500	1000	2000	4000			
		α,				0.50	0.80	0.90	0.90	1.00	1.00			
		NRC = <b>0.90</b>	as per AST <i>M</i>	I C 423										
Sound attenuation		EN ISO 10848-2 D <sub>n.f.w</sub> = <b>28 dB</b> as per EN ISO 717-1 CAC = <b>29 dB</b> as per ASTM E 413-10								13-10				
Sound reduction	¥	EN ISO 101 R <sub>w</sub> = <b>14 dB</b>	40-2 as per EN ISC	) 717-1										
Fire reaction	<u></u>	Euroclass <b>A2-s1, d0</b> as per EN 13501-1 RUS <b>KM1 (G1, V1,</b>								I <b>, D1, T1)</b> as per 123-FZ				
Light reflectance	7	88%												
Thermal conductivity		λ = 0.040 \	<b>W/mk</b> as pe	r EN 12667	7									
Air permeability	<u>tîî</u>	<b>PM1</b> (≤ 30	m³/hm²) as p	er EN 18172	7									
Humidity resistance	<b>\$</b> \$	95% RH												
Clean room	¥	<b>ISO 4</b> as pe	er EN ISO 146	544-1										
Indoor air quality	<b>(</b>	KABC	E1											
Cleanability		P	P.		٥									
Sustainability		EN ISO 14021 43%	BIOSOLUBLE WOOL											

# AMF THERMATEX® Acoustic Hygena

- The laminated finish of AMF THERMATEX<sup>®</sup> Acoustic Hygena creates a smooth, white appearance and provides good levels of sound absorption and excellent sound attenuation
- The surface is washable and anti-microbial (resistant to the growth of germs, bacteria and fungi)
- Good sound absorption (0.65 (H) α<sub>w</sub>)
- Excellent sound attenuation (40 dB; SL2)
- High sound attenuation (38 dB; Board, Tegular 24, Tegular 15, Tegular 15/90, Finesse, Vector)
- Excellent light reflectance (88%)
- ISO 3

• Ideal for healthcare facilities in general, kitchens, food industries, laboratories, etc.



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#### AMF THERMATEX® ACOUSTIC HYGENA

<b>Edge details</b> Additional edge details		Board	Tegular 24	Tegular 15	Tegular 15/90	Û 		Finesse			
on request		<u> </u>	<u></u>			24					
Thickness (mm)	<ul> <li>↓</li> <li>↑</li> </ul>	19	19	19	19	19	24	19			
Dimensions (mm) Additional sizes on request	,	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625	600 x 600	600 x 600	1200 x 300 1500 x 300 1800 x 300 2000 x 300 2500 x 300	600 x 600 625 x 625	600 x 600 625 x 625			
System		Exposed dem	iountable - Sy	ystem C		Semi-concealed planks, demountable - System 1.3 Semi-concealed planks - Bandraster, demountable - System 1.2 Semi-concealed planks - Corridor, demountable - System F.2	Semi-concealed tiles, demountable - System C	Concealed, demountable - System A.2 / A.3			
Weight	Kg	5.0 - 8.6 kg	$/ m^2$								
Colour		White									
Sound absorption		Frequency $\alpha_{\rm P}$	<b>H)</b> as per EN f (Hz) Boa	rd, Tegular 2 Jlar 15/90, l tor	4, Tegular 15,	125 25 0.50 0.4 0.45 0.4	5 0.60 0.85	200040000.950.950.951.00			
Sound attenuation		D <sub>n,f,w</sub> = <b>40 dl</b>	<b>B</b> (Board, Teg <b>B</b> (SL2) as per	EN ISO 717	-1	<sup>.</sup> 15/90, Vector, Finesse) as per EN ISO 717-1 Igular 15, Tegular 15/90, Vector, Finesse) as per ASTM E 413-10					
Sound reduction	¥	EN ISO 101 R <sub>w</sub> = <b>22 dB</b>	40-2 as per EN IS	0 717-1							
Fire reaction	<del>W</del>		<b>2-s1, d0</b> as per ASTM E		)1 - 1	RUS <b>KM1 (G</b>	<b>1, V1, D1, T1)</b> as pe	r 123-FZ			
Light reflectance	$\overline{\mathbf{A}}$	88%									
Thermal conductivity	J	λ = 0.060 \	<b>W/mk</b> as pe	er EN 12667	7						
Air permeability	<u>रीरि</u>	<b>PM1</b> (≤ 30	m³/hm²) as j	per DIN 1817	77						
Humidity resistance	4	95% RH									
Clean room	¥W	<b>ISO 3</b> as pe	er EN ISO 14	644-1							
Indoor air quality	<b>+</b>	A+     E1     IACG									
Cleanability		P	P.								
Sustainability		<mark>е к 150 14021</mark> 41 - 49%	EN ISO 14025	BIOSOLUBLE WOOL							



## AMF THERMATEX® Thermofon Hygena



- High sound absorption (0.80(H)  $\alpha_{w}$ )
- Excellent light reflectance (88%)
- ISO 4
- Ideal for healthcare facilities in general, kitchens, food industries, laboratories, etc.



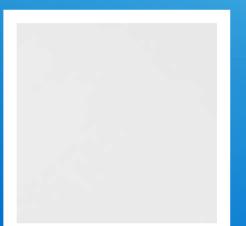


#### AMF THERMATEX® THERMOFON HYGENA

<b>Edge details</b> Additional edge details on request		Board Î										
Thickness (mm)	<u>↓</u>	<u>-24</u> _  15										
<b>Dimensions (mm)</b> Additional sizes on request	<b> </b>	600 x 600										
System		Exposed de	mountable -	System C								
Weight	Kg	2.9 kg / m²	2									
Colour	<b>E</b>	White										
Sound absorption		**	<b>H)</b> as per EN	I ISO 11654 -	Class B							
		Frequency	f (Hz)			125	250	500	1000	2000	4000	
		α <sub>P</sub>				0.55	0.75	0.75	0.80	0.95	1.00	
		NRC = <b>0.8</b>	<b>5</b> as per AST	M C 423								
Sound attenuation		EN ISO 10 D <sub>n,f,w</sub> = <b>28 c</b>	848-2 <b>B</b> as per EN	ISO 717-1		С	AC = <b>29 c</b>	<b>B</b> as per	ASTM E 41	3-10		
Sound reduction	¥	EN ISO 10 R <sub>w</sub> = <b>13 dB</b>	140-2 as per EN IS	O 717-1								
Fire reaction	<b>F</b>	Euroclass A	<b>2-s1, d0</b> as	per EN 13501	-]	RU	JS <b>KM1 (</b>	G1, V1,	<b>D1, T1)</b> a	s per 123-	FZ	
Light reflectance		88%										
Thermal conductivity	J	λ = <b>0.040</b>	<b>W/mk</b> as p	er EN 12667								
Humidity resistance	<b>\$</b> \$	95% RH										
Clean room	¥	<b>ISO 4</b> as p	er EN ISO 14	1644-1								
Indoor air quality	Ŧ		EN 13964									
Cleanability		Z	P.									
Sustainability		EN 150 14021 42%	EC 1272/2008 Annex O									



## AMF TOPIQ<sup>®</sup> Prime Hygena



- AMF TOPIQ<sup>®</sup> Prime Hygena is a very light stone wool panel with a modern, smooth surface. The surface is washable and anti-microbial (resistant to the growth of germs, bacteria and fungi)
- Excellent sound absorption (0.95  $\alpha_w$ )
- Excellent light reflectance (88%)
- ISO 5
- Ideal for healthcare facilities in general, kitchens, food industries, laboratories, etc.



#### AMF TOPIQ<sup>®</sup> PRIME HYGENA

Edge details	Board	Tegular 24/9	0		Tegular 1	5/90		
Additional edge details on request						-		
Thickness (mm)	15	15			15			
Dimensions (mm) Additional sizes on request	600 × 600 625 × 625 1250 × 625	600 x 600 625 x 625			600 x 6 625 x 6			
System	Exposed demountable - System C							
Weight 📩	2.1 kg/m²							
Colour	White							
Sound absorption	EN ISO 354 $\alpha_w = 0.95$ as per EN ISO 11654 Frequency $f(Hz)$ $\alpha_p$ NRC = 0.90 as per ASTM C 423		125 0.50	250 0.85	500 0.95	1000 0.90	2000 1.00	4000 1.00
Sound attenuation	EN ISO 10848-2 D <sub>n,f,w</sub> = <b>24 dB</b> as per EN ISO 717			CAC = <b>24</b>	<b>dB</b> as per	ASTM E 4	413-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>13 dB</b> as per EN ISO 717-1							
Fire reaction	Euroclass <b>A1</b> as per EN 13501-1 <b>Class A</b> as per ASTM E 84			RUS <b>KM2</b>	2 (G1, V2	, D1, T1)	as per 123	3-FZ
Light reflectance	88%							
Humidity resistance	100% RH							
Clean room	<b>ISO 5</b> as per EN ISO 14644-1							
Indoor air quality 🔒 🔒	A E1							
Cleanability	<b>? ?</b> . <b>*</b>		8					
Sustainability	BICSOLUBLE WOOL           EN ISO 14021           33 %							

## AMF TOPIQ<sup>®</sup> Efficient Pro Hygena

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- AMF TOPIQ<sup>®</sup> Efficient Pro Hygena is a very light stone wool panel with a modern, smooth surface. The surface is washable and anti-microbial (resistant to the growth of germs, bacteria and fungi)
- Excellent sound absorption (1.00  $\alpha_w$ )
- Excellent light reflectance (88%)
- ISO 4

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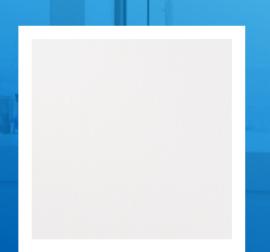
• Ideal for healthcare facilities in general, kitchens, food industries, laboratories, etc.



#### AMF TOPIQ<sup>®</sup> EFFICIENT PRO HYGENA

Edge details		Board			Tegula	r 24/90			Tegu	lar 15/90		
Additional edge details on request						]						
Thickness (mm)	↓ ↑	20			20				20			
Dimensions (mm) Additional sizes on request	<b>,</b> ,	600 x 600 1200 x 600			600 x 625 x					) x 600 5 x 625		
System		Exposed den	nountable - S	ystem C								
Weight	Kg	2.8 kg / m²										
Colour	<b>P</b>	White										
Sound absorption		EN ISO 354 α <sub>w</sub> = <b>1.00</b> as Frequency f	s per EN ISO	11654 - (	Class A	12	5	250	500	1000	2000	4000
		$\alpha_{\rm p}$	as per ASTN	A C 123		0.4	15	0.90	1.00	0.95	1.00	1.00
Sound attenuation		EN ISO 108			1		C,	AC = <b>25</b>	<b>dB</b> as per	· ASTM E 4	13-10	
Sound reduction	<b>₹</b>	EN ISO 1014 R <sub>w</sub> = <b>15 dB</b> c	40-2 as per EN ISC	) 717-1								
Fire reaction	<b>F</b>	Euroclass A1	as per EN 1	3501-1			RU	JS <b>KM2</b>	(G1, V2	, D1, T1)	as per 12	3-FZ
Light reflectance	7	88%										
Humidity resistance		100% RH										
Clean room	<b>W</b>	<b>ISO 4</b> as pe	r EN ISO 146	544-1								
Indoor air quality		MADE A	E1									
Cleanability		P	P.									
Sustainability		EN ISO 14021 33%	BIOSOLUBLE WOOL									

# **PLAIN Hygena**



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- PLAIN Hygena offers a white, smooth surface that creates an elegant ceiling appearance and provides excellent light reflection. The surface is washable and anti- microbial (resistant to the growth of germs, bacteria and fungi)
- Good sound attenuation (34 dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for healthcare environments and laboratories



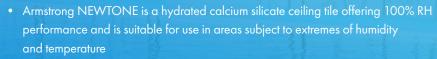
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#### PLAIN HYGENA

Edge details	Board								
Additional edge details on request									
Thickness (mm)	<ul> <li>↓</li> <li>15</li> </ul>								
Dimensions (mm) Additional sizes on request	600 x 60	00							
System	Exposed	demountable - Sy	ystem C						
Weight	3.8 kg /	m <sup>2</sup>							
Colour	White								
Sound absorption	Frequence	<b>D(L)</b> as per EN IS	SO 11654 - <b>Clas</b> NC 423	125 0.30	250 0.25	500 0.15	1000 0.15	2000 0.25	4000 0.30
Sound attenuation	EN ISO 1 D <sub>n,f,w</sub> = <b>34</b>	0848-2 I <b>dB</b> as per EN IS	SO 717-1		CAC = <b>35</b>	<b>dB</b> as pe	r ASTM E	413-10	
Fire reaction	Euroclass	<b>A2-s1, d0</b> as p	er EN 13501-1		RUS <b>KM1</b>	(G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance	88%								
Thermal conductivity	λ = 0.06	0 W/mK as pe	r EN 12667						
Air permeability	<b>?((() PM1</b> (≤ 3	30 m³/hm²) as p	er DIN 18177						
Humidity resistance	95% RH								
Clean room	<b>ISO 4</b> as	per EN ISO 146	544-1						
Indoor air quality	+ (A+	EN 13964							
Cleanability	P	P,							
Sustainability	EN 150 14021 48%	BIOSOLUBLE WOOL							

### ARMSTRONG NEWTONE



• High sound attenuation (37 dB)

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• Ideal for spas and water parks





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#### **ARMSTRONG NEWTONE**

Edge details		Board										
Additional edge details on request		<u> </u>										
Thickness (mm)	↓ ↑	6										
Dimensions (mm) Additional sizes on request	<b>,,</b> ,	600 x 600										
System		Exposed der	mountable - Sy	vstem C								
Weight	Kg	8.0 kg / m²										
Colour		White										
Sound absorption			as per EN IS	0 11654 - <b>Cla</b>	ass N/A							
		Frequency f	(Hz)			125	250	500	1000	2000	4000	
		$\alpha_p$	as per ASTM	C 100		0.25	0.15	0.10	0.10	0.10	0.05	
		TAKC - 0.10	us per ASIM	C 423								
Sound attenuation		EN ISO 108 D <sub>n,f,w</sub> = <b>37 di</b>	48-2 <b>B</b> as per EN IS	0 717-1								
Fire reaction	<b>E</b>	Euroclass A2	<b>2-s1,d0</b> as pe	r EN 13501-1			RUS KM	<b>) (NG)</b> as	per 123-F	Z		
Light reflectance		84%										
Humidity resistance	<b>\$</b> \$	100% RH										
Indoor air quality	+	A+	EN 13964									
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 Plain

OUR CLASSIC MINERAL RANGE IS AVAILABLE IN PLAIN WHITE, OFFERING MORE REFLECTED DAYLIGHT AND HIGH LEVELS OF SOUND ATTENUATION FOR EXCELLENT ROOM TO ROOM PRIVACY.











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- PLAIN offers a smooth white surface that meets today's trends for cleaner finishes, whilst maximising light reflectance
- Good sound attenuation (34 dB
- Excellent light reflectance (88%)
- Ideal for retail environments



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#### PLAIN

Edge details		Board			Tegular 24			Tegula	ır 15			
Additional edge details on request					 ∞Ţ_ <u>_24</u>				Ĵ  5			
Thickness (mm)	↓ ↑	15			15			15				
Dimensions (mm) Additional sizes on request	<b></b> ,	600 x 600 1200 x 600			600 x 600 1200 x 600				x 600 x 600			
System		Exposed dem	ountable - Sys	rstem C								
Weight	Kg	3.6 - 3.8 kg /	/ m <sup>2</sup>									
Colour	<b>E</b>	White										
Sound absorption		EN ISO 354 α <sub>w</sub> = <b>0.20(L)</b> Frequency f		O 11654	4 - Class E	125	250	500	1000	2000	4000	
		α <sub>P</sub> NRC = <b>0.20</b>	as per ASTM	C 423		0.30	0.25	0.15	0.15	0.25	0.30	
Sound attenuation		EN ISO 1084 D <sub>n,f,w</sub> = <b>34 de</b>		0 717-1			CAC = <b>35</b>	<b>dB</b> as pe	r ASTM E	413-10		
Fire reaction	<u></u>		<b>-s1, d0</b> as pe er ASTM E 84		501-1		RUS <b>KM1</b>	(G1, V1,	, D1, T1)	as per 123	3-FZ	
Light reflectance	7	88%										
Thermal conductivity	J	λ = <b>0.060 W</b>	<b>//mK</b> as per	EN 126	67							
Humidity resistance	4	95% RH										
Clean room	*	ISO 4 as per	EN ISO 1464	44-1								
Indoor air quality	+	At	E1 13964		4005							
Cleanability		P	P.									
Sustainability		<mark>% % % % % % % % % % % % % % % % % % % </mark>	EN ISO 14025	EC 1272/2008	$\mathbb{D}$							



# 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.











- Armstrong DUNE Supreme features a microperforated finely sanded surface combining good levels of sound absorption and sound attenuation, making it an ideal choice for many spaces
- Good sound absorption (0.55  $\alpha_w$ ) and sound attenuation (34dB)
- Good light reflectance (85%)

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• Ideal for office and learning applications





#### **ARMSTRONG DUNE SUPREME**

Edge details	- Board	Tegular 24			Tegulo	ar 15		
Additional edge details on request								
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 (	С						
Weight	3.6 - 4.0 kg ∕ m²							
Colour	White							
Sound absorption	EN ISO 354 $\alpha_w = 0.55$ as per EN ISO 11654 Frequency $f(Hz)$ $\alpha_p$ NRC = 0.50 as per ASTM C 423		125 0.40	250 0.45	500 0.55	1000 0.60	2000 0.50	4000 0.45
Sound attenuation	EN ISO 10848-2 D <sub>n.f.w</sub> = <b>34 dB</b> as per EN ISO 712	7-1		CAC = <b>35</b>	<b>dB</b> as pe	er ASTM E	413-10	
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>17 dB</b> as per EN ISO 717- <sup>-</sup>	1						
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN <b>Class A</b> as per ASTM E 84	13501-1		RUS KM1	(G1, V1	, D1, T1)	as per 123	3-FZ
Light reflectance	85%							
Thermal conductivity	λ = <b>0.060 W/mk</b> as per EN 12	2667						
Humidity resistance	95 - 99% RH							
Indoor air quality		ANG COLUMNS SOLD KED PROTO						
Cleanability	<b>? ?</b> .							
Sustainability	<u>ки</u> кислание 42 - 43%							



## ARMSTRONG DUNE MAX



- Armstrong DUNE Max features a microperforated, finely sanded surface, offering improved levels of sound absorption and sound attenuation, making it a great choice for areas requiring Class C sound absorption
- Good sound absorption (0.70  $\alpha_{\rm w}$ ) and high sound attenuations (38 dB)
- Good light reflectance (85%)
- Ideal for classrooms and learning applications





#### **ARMSTRONG DUNE MAX**

	_										
Edge details	<b>-</b> Boo	ırd				Teg	ular 24				
Additional edge details		Ĵ									
on request		24									
Thickness (mm)	19					19					
Dimensions (mm)	600	) x 600				600	) x 600				
Additional sizes	•••										
on request											
	0 9 _										
System	Exp	osed demounta	ble - Syste	тC							
Weight	<b>G</b> <b>Kg</b> 5.0	kg / m²									
Colour	M	ite									
Sound absorption	200	ISO 354									
		= <b>0.70</b> as per El	n Iso 116	54 - <b>Class</b> (	С	10.5	0.50	500	1000	0000	(000
		equency f (Hz)	Deened Te			125 0.40	250 0.60	500 0.70	1000 0.80	2000 0.80	4000 0.55
		C = <b>0.70</b> as per	Board, Te			0.40	0.00	0.70	0.80	0.80	0.55
			A JIM C	720							
Sound attenuation	200	ISO 10848-2									
	D <sub>n,f</sub>	"= <b>38 dB</b> as pe	er EN ISO	717-1			CAC = <b>38</b>	<b>dB</b> as pe	er ASTM E	413-10	
Sound reduction	EN	ISO 10140-2									
John redoction		= <b>21 dB</b> as per E	EN ISO 71	7-1							
Fire reaction		oclass <b>A2-s1, d</b>		N 13501-1			RUS <b>KM1</b>	(G1, V1	, D1, T1)	as per 123	3-FZ
		<b>iss A</b> as per AST	IN L 04								
Light reflectance	85	%									
Thermal conductivity	λ =	0.060 W/mk	as per EN	1 12667							
Air permeability		1 (≤ 30 m³/hı	<b>m²)</b> as per	DIN 18177							
Humidity resistance	90	% RH									
Indoor air quality				SOR AIR COMA							
indoor dir quality											
		ABC EN 13		IACG							
Cleanability											
Sustainability			PD			Stule Angel					
	EN	150 14021 EN ISO		EC 12772/2008 Annex Q		I COMAN ECOL	/				
	4	10%			www.bla	auer-enge	<b>I.de</b> /uz132				

## AMF THERMATEX® Feinstratos

- AMF THERMATEX<sup>®</sup> Feinstratos creates an even, uniform ceiling appearance due to its finely textured surface
- Good sound attenuation (34 dB)
- Good light reflectance (85%)
- Ideal for retail, meeting rooms, installation rooms or production areas

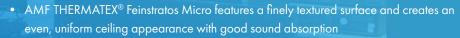




#### **AMF THERMATEX® FEINSTRATOS**

Edge details		Board	Tegular 24	Tegular 15	Finesse			SL2		K2C2	
Additional edge details		Ŷ		Î	Î			Î			
on request		<u> _24</u>	<u>∞</u> 24		24			24		28	-
Thickness (mm)	<u>↓</u>	15	15	15	19			19		15	
Dimensions (mm) Additional sizes on request	<b>  </b>	600 x 600 625 x 625 1200 x 600 1250 x 625 1800 x 300 2500 x 300	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600	600 x 60	0		2000 x 3 2500 x 3			x 312,5 x 312,5
System		Exposed - Ban	untable - System draster, demounta idor, demountabl	able - System I.3	Concealed System A.2		able -	Semi-conc planks, de - System I. Semi-conc planks - Ba demounta System I.2 Semi-conc planks - C demounta System F.2	mountable 3 cealed andraster, ble - cealed orridor, ble -	planks, untable Semi-co planks non-de System Semi-co planks	oncealed - Corridor, mountable -
Weight		3.8 - 5.0 kg /	/ m <sup>2</sup>								
Colour	<b>6</b>	White									
Sound absorption		EN ISO 354									
		α <sub>w</sub> = <b>0.20</b> as Frequency f	per EN ISO 110 [Hz]	654 - <b>Class E</b>		125	250	500	1000	2000	4000
			as per ASTM C	40.0		0.35	0.20	0.15	0.15	0.20	0.20
Sound attenuation		EN ISO 1084 D <sub>nfw</sub> = <b>34 dB</b>	8-2 (Board, Tegular	24, Tegular 15, k 24, Tegular 15,	K2C2) D <sub>n,f,w</sub> = <b>38 dB</b> (Finesse, SL2) as per EN ISO 717- K2C2) CAC= <b>38 dB</b> (Finesse, SL2) as per ASTM E 413-						17-1 13-10
Sound reduction	<u></u>	EN ISO 1014 R <sub>w</sub> = <b>21 dB</b> a	0-2 s per EN ISO 7	17-1							
Fire reaction	<b>F</b>	Euroclass A2	- <b>s1, d0</b> as per l	en 13501-1		RUS KA	Л1 (G	1, V1, D1,	<b>T1)</b> as p	er 123-F2	7
Light reflectance		85%									
Thermal conductivity	A	λ = <b>0.060 W</b>	<b>//mk</b> as per El	N 12667							
Humidity resistance	•	95% RH									
Indoor air quality		A+	E1 IA	ANR COLOR COLOR CCG							
Cleanability		P	P.								
Sustainability		ен ISO 14021 37-43%	EN ISO 14025	JUBLE WOOL							





- Good sound absorption (0.60 α<sub>w</sub>)
- 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

Edge details		Board	Tegular 24	Tegular 15	Finesse		SL2		K2C	2	
Additional edge details on request		Î				<u>₽</u>		I			
	_	24		1-115	1 <u>24</u> £1					28	
Thickness (mm)	↓	15, 19	15, 19	15	19		19		15		
Dimensions (mm) Additional sizes on request	<b>****</b>	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	600 x 600 625 x 625 1200 x 600		1500 x 3 1800 x 3 2000 x 3 2500 x 3 2500 x 3	00 12,5 00		x 312,5 x 312,5	
System		Exposed demo	untable - System C	;	Concealed, demo table - System A.2 / A.3		Semi-conce Bandraster, - System I.2 Semi-conce	e - System I.3 aled planks - demountable	non-de System Semi-c - Banc demou Semi-c - Corri	concealed pl emountable - t 1.3 concealed pl lraster, non- untable - Sysi concealed pl dor, non- untable - Sysi	anks tem I.1 anks
Weight		3.9 - 5.0 kg ,	/ m <sup>2</sup>								
Colour	P	White									
Sound absorption		EN ISO $354$	s per EN ISO 1	1654 - <b>Class</b>	c						
		Frequency f		1034 - 41433	125	250	500	1000	2000	4000	
		α			0.50	0.50	0.55	0.70	0.65	0.50	
		NRC = <b>0.60</b> EN ISO 108	as per ASTM ( 48-2	C 423							
Sound attenuation		D <sub>n,f,w</sub> = <b>38 d</b>	<b>B</b> Board, Tegula	ar 24, Finesse,	15, K2C2 (15mm SL2 (19mm) as p 9mm) as per ASTA	er EN IS	SO 717-1	7-1			
Sound reduction	Ť	EN ISO 1014									
Fire reaction	T		<b>2-s1, d0</b> as per ber ASTM E 84			RUS	(M1 (G1, V	<b>/1, D1, T1</b>	) as per <sup>°</sup>	123-FZ	
Light reflectance	7	85%									
Thermal conductivity	ł	λ = <b>0.060 V</b>	<b>V/mk</b> as per l	en 12667							
Humidity resistance		95% RH									
Indoor air quality	+	A+	E1	COLORING COLORIN COLORIN COLORING COLORING COLORING COLORING COLORING COLOR							
Cleanability		<i>P</i>	P.								
Sustainability		EN ISO 14021 37-43%	EN ISO 14025	IOSOLUBLE WOOL							



### AMF THERMATEX<sup>®</sup> Feinstratos Micro Complete

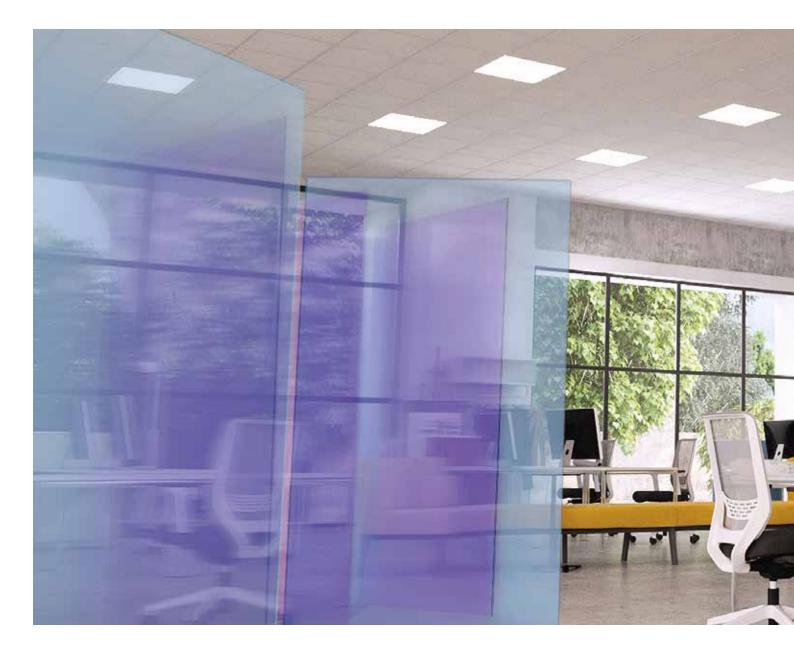


- AMF THERMATEX<sup>®</sup> Feinstratos Micro Complete features a finely textured surface and creates a uniform ceiling appearance with good sound absorption
- Good sound absorption (0.70  $\alpha_w$ )
- Good sound attenuation (34 dB)
- Good light reflectance (85%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas



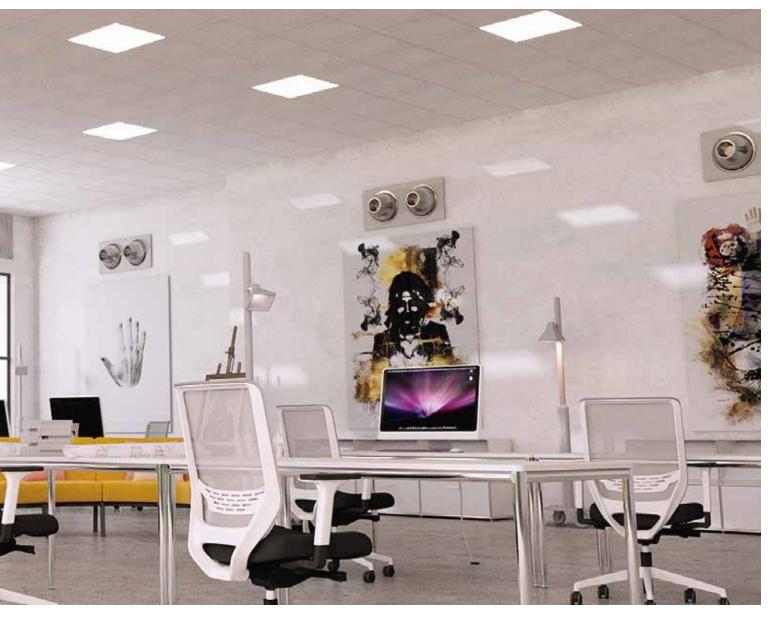
#### AMF THERMATEX® FEINSTRATOS MICRO COMPLETE

Edge details Additional edge details on request	-	Board										
Thickness (mm)	↓ ↑	15										
Dimensions (mm) Additional sizes on request		600 x 600										
System		Exposed der	nountable - S	ystem C								
Weight	Kg	4.0 kg / m²										
Colour	<b>P</b>	White										
Sound absorption	<u>S00</u>	Frequency f α <sub>p</sub>	s per EN ISO	11654 - <b>Clas</b> 1 C 423	s C	125 0.45	250 0.65	500 0.70	1000 0.80	2000 0.75	4000 0.50	
Sound attenuation	A111	EN ISO 108 D <sub>n,f,w</sub> = <b>34 di</b>	48-2 <b>B</b> as per EN IS	SO 717-1		C	CAC = <b>35</b>	<b>dB</b> as per	ASTM E 4	13-10		
Sound reduction		EN ISO 1014 R <sub>w</sub> = <b>21 dB</b> d	40-2 as per EN ISC	) 717-1								
Fire reaction	ক্ত	Euroclass A2	<b>2-s1, d0</b> as p	er EN 13501-	1	I	RUS <b>KM1</b>	(G1, V1	, D1, T1)	as per 123	8-FZ	
Light reflectance		85%										
Thermal conductivity	ł	λ = <b>0.060 V</b>	<b>V/mk</b> as pe	r EN 12667								
Humidity resistance	<b>\</b>	95% RH										
Indoor air quality	+	A+	E1	Control Records								
Cleanability		P	P.									
Sustainability		EN ISO 14021	EN ISO 14025	BIOSOLUBLE WOOL	www	.blauer-enge	<b>I.de</b> /uz132					



# 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.









### AMF THERMATEX® Star 15mm



- AMF THERMATEX<sup>®</sup> 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  $\alpha_w$ )
- Good sound attenuation (34 dB)
- Excellent light reflectance (88%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas





#### **AMF THERMATEX® STAR 15mm**

Edge details	Board	Tegular 24	Tegular 15	K2	.C2						
Additional edge details on request				10							
Thickness (mm)	15	15	15	15							
Dimensions (mm) Additional sizes on request	600 x 600 625 x 625 1200 x 600 1250 x 625 2500 x 300	625 x 625     625 x 625     625 x 625     2500 x 312,5       1200 x 600     1200 x 600     1200 x 600       1250 x 625     625									
System	Exposed - Band	Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3						ountable ·	ntable - System I.3		
Weight K	3.6 - 3.8 kg / r	3.6 - 3.8 kg / m <sup>2</sup>									
Colour	White										
Sound absorption	$\alpha_{w} = 0.60$ as p Frequency $f(H)$ $\alpha_{p}$	er EN ISO 11654 - z) 3 per ASTM C 423	Class C	125 0.45	250 0.50	500 0.55	1000 0.70	2000 0.65	4000 0.50		
Sound attenuation		EN ISO 10848-2 D <sub>n.f.w</sub> = <b>34 dB</b> as per EN ISO 717-1 CAC = <b>35 dB</b> as per ASTM E 413-10									
Sound reduction	EN ISO 10140- R <sub>w</sub> = <b>21 dB</b> as p	EN ISO 10140-2 R <sub>w</sub> = <b>21 dB</b> as per EN ISO 717-1									
Fire reaction	Euroclass A2-s Class A as per	Euroclass <b>A2-s1, d0</b> as per EN 13501-1 RUS <b>KM1 (G1, V1, D1, T1)</b> as per 123-FZ <b>Class A</b> as per ASTM E 84							3-FZ		
Light reflectance	88%	88%									
Thermal conductivity	λ = <b>0.060 W</b> /	λ = <b>0.060 W/mk</b> as per EN 12667									
Humidity resistance	95% RH	95% RH									
Indoor air quality											
Cleanability	Z										
Sustainability	2% EN ISO 46021 37-48%	Image: Wight High High High High High High High High									





# AMF THERMATEX® Star 19mm

- AMF THERMATEX<sup>®</sup> Star 19mm features fine, uneven perforations with a smooth surface finish, and meets the needs for a modern, elegant design visual
- Good sound absorption (0.60  $\alpha_w$ )
- High sound attenuation (38 dB)
- Excellent light reflectance (88%)
- Ideal for retail, offices and installations rooms



#### **AMF THERMATEX® STAR 19mm**

	_											
Edge details		Tegular 24			SL2				K4C4			
Additional edge details					Ĵ							
on request												
Thickness (mm)	<u>↓</u>	19			19			19				
Dimensions (mm)	<b>«···</b> •	600 x 600 1800 x 300 625 x 625										
Additional sizes		2000 x 312,5 2500 x 300										
on request		2500 x 300 2500 x 312,5										
System		Exposed demountable - System C - System I.3 Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable - System I.2 Semi-concealed planks - Corridor, demountable - System F.2							Concealed, non-demountable - System A.1			
Weight	Kg	5.0 kg / m²	2									
Colour	6	White										
Sound absorption		EN ISO 354	4									
		44	as per EN ISO	11654 - <b>Cl</b>	ass C							
		Frequency	f (Hz)			125	250	500	1000	2000	4000	
		$\alpha_{\rm P}$	<b>5</b> as per ASTM	C 423		0.40	0.45	0.55	0.65	0.60	0.45	
				0 120								
Sound attenuation		EN ISO 108 D <sub>n,f,w</sub> = <b>38 d</b>	848-2 <b>IB</b> as per EN IS	60 717-1			CAC =	<b>38 dB</b> as	per ASTM	E 413-10		
Sound reduction	¥	EN ISO 101 R <sub>w</sub> = <b>21 dB</b>	140-2 as per EN ISO	717-1								
Fire reaction	<b>E</b>	Euroclass <b>A2-s1, d0</b> as per EN 13501-1 RUS <b>KM1 (G1, V1, D1, T1)</b> as per 123-FZ <b>Class A</b> as per ASTM E 84										
Light reflectance		88%										
Thermal conductivity	Ą	λ = <b>0.060</b> γ	<b>W/mk</b> as per	EN 12667	7							
Air permeability	रीरि	<b>PM1</b> (≤ 30	m³/hm²) as pe	er DIN 181	77							
Humidity resistance		95% RH										
Indoor air quality		A+	EN 13964	Soft All Co Control of Control Control of Control Control of Control of Control Control of Control								
Cleanability		Z	Z									
Sustainability		<mark>%</mark> ен 150 14021 37-48%	EN 150 14025	BIOSOLUBLE I EC 1272/2008 A		www.blauer-	engel.de/UZ	132				

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

## AMF THERMATEX® Star Complete



- With its perforated surface, AMF THERMATEX® Star Complete offers an elegant, modern solution for spaces that require good sound absorption
- Good sound absorption (0.70  $\alpha_w$ )
- Good sound attenuation (34 dB)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas





#### **AMF THERMATEX® STAR COMPLETE**

Edge details	Board	Tegular 24			Tegul	ar 15							
Additional edge details on request					ť	) 							
						5							
Thickness (mm)	15	15			15								
Dimensions (mm)	625 x 625 600 x 600	625 x 625 600 x 600											
Additional sizes on request	1200 x 600	1200 x 600											
System	Exposed demountable - System C	2											
Weight Ka	↓ 4.0 kg / m²												
Colour	White												
Sound absorption	EN ISO 354 α <sub>w</sub> = <b>0.70</b> as per EN ISO 11654	- Class C											
	Frequency f (Hz)		125	250	500	1000	2000	4000					
	α <sub>P</sub>		0.50	0.65	0.70	0.80	0.75	0.50					
	NRC = <b>0.70</b> as per ASTM C 423	3											
Sound attenuation													
	D <sub>n,f,w</sub> = <b>34 dB</b> as per EN ISO 717	D <sub>n,f,w</sub> = <b>34 dB</b> as per EN ISO 717-1					CAC = <b>35 dB</b> as per ASTM E 413-10						
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>21 dB</b> as per EN ISO 717-1												
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN <b>Class A</b> as per ASTM E 84	Euroclass <b>A2-s1, d0</b> as per EN 13501-1 RUS <b>KM1 (G1, V1, D1, T1)</b> as per 123-FZ <b>Class A</b> as per ASTM E 84						8-FZ					
Light reflectance	88%												
Thermal conductivity	λ = <b>0.060 W/mk</b> as per EN 12	2667											
Air permeability	₹ PM1 (≤ 30 m³/hm²) as per DIN	18177											
Humidity resistance	95% RH												
Indoor air quality	▲▲BC EN 13964	ANR COLLEGE Surging States States Propose CCG											
Cleanability	P R												
Sustainability	EN ISO MO21 43%	JUBLE WOOL	blauer-engel	I.de/uz132									



## AMF THERMATEX® Mercure



- AMF THERMATEX<sup>®</sup> Mercure is a white ceiling panel featuring fine perforations, creating a modern, high-quality surface finish
- Good sound absorption (0.60  $\alpha_w$ )
- Good light reflectance (85%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas





knaufceilingsolutions.com

## AMF THERMATEX® MERCURE

Edge details		Board			Tegular 24			Tegul	ar 15			
Additional edge details		î			Ŷ			f	)			
on request					∞ <u>24</u>				5			
Thickness (mm)		15			15			15				
Dimensions (mm)	k	600 x 600			600 x 600			600>	< 600			
Additional sizes on request		1200 x 600										
System		Exposed der	nountable - Sy	ystem C								
Weight		3.6 - 3.8 kg	/ m <sup>2</sup>									
Colour		White										
Sound absorption		EN ISO 354		11 / 5 /								
		$\alpha_{\rm w} = 0.60$ as Frequency f	s per EN ISO	11654 -	Class C	125	250	500	1000	2000	4000	
			(112)			0.45	0.40	0.50	0.70	0.70	0.65	
			as per ASTM	C 423								
Sound attenuation		EN ISO 108 D <sub>n,f,w</sub> = <b>32 di</b>	48-2 <b>B</b> as per EN IS	SO 717-	1		CAC = <b>32</b>	<b>dB</b> as pe	r ASTM E	413-10		
Sound reduction	¥.	EN ISO 1014 R <sub>w</sub> = <b>21 dB</b> d	40-2 as per EN ISO	) 717-1								
Fire reaction	<b>F</b>	Euroclass <b>A2</b> Class A as p	<b>2-s1, d0</b> as pe per ASTM E 84	er EN 13 4	3501-1		RUS <b>KM1</b>	(G1, V1	, D1, T1)	as per 123	8-FZ	
Light reflectance	7	85%										
Thermal conductivity	J	λ = <b>0.060 V</b>	<b>V/mk</b> as per	r EN 126	67							
Humidity resistance	4,4	95% RH										
Indoor air quality	*	A+	E1	CRANCE COLOR	PRO							
Cleanability		P	P.									
Sustainability		к ISO 14021 37-48%	EN ISO 14025	BIOSOLUBL EC 1272/2008	E WOOL							



# AMF THERMATEX® Mercure Complete



- AMF THERMATEX<sup>®</sup> Mercure Complete is a white ceiling panel featuring fine perforations, creating a modern, high-quality surface finish.
- Good sound absorption (0.70 α<sub>w</sub>; 15 mm | 0.75 α<sub>w</sub> 19mm) Good sound attenuation (34 dB; 15mm) High sound attentuation (38 dB; 19mm)
- Good light reflectance (85%)
- Ideal for retail, offices and meeting rooms, installations rooms or production areas.



## AMF THERMATEX® MERCURE COMPLETE

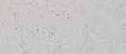
Edge details		Board		Tegular	- 24			Tegul	ar 15			
Additional edge details		Ŷ		Û				ť	Ĵ			
on request				<u>24</u>	<u>}</u>				5			
Thickness (mm)	↓ ↑	15		19-15				15				
Dimensions (mm)	····	610 x 610 600 x 600 (19 mm) 610 x 610										
Additional sizes on request		625 x 625     610 x 610 (15 mm)     625 x 625       1220 x 610     1250 x 625										
System		Exposed demoun	table - System (	2								
Weight		4.0 kg / m² (15 n 5.0 kg / m² (19 n										
Colour	<b>P</b>	White										
Sound absorption		EN ISO 354	/									
		$\alpha_{w} = 0.70 (15 \text{ mm})$ Frequency $f(Hz)$		n) as per EN	1150 116 v 12		<b>ass C</b> 250	500	1000	2000	4000	
					0.3		0.60	0.60	0.75	0.90	4000 0.75	
		$\alpha_p$ NRC = <b>0.75</b> as p	er ASTM C 423	}	0.4	40	0.50	0.70	0.90	0.90	0.75	
Sound attenuation	<b>*</b>	EN ISO 10848-2	)									
	<u>w</u> ,	$D_{n,f,w} = 34 \text{ dB} (15)$ $D_{n,f,w} = 38 \text{ dB} (19)$	mm) as per EN	ISO 717-   ISO 717-	1	С	AC = <b>36</b>	<b>dB</b> as pe	er ASTM E	413-10		
Sound reduction	¥	EN ISO 10140-2 R <sub>w</sub> = <b>21 dB</b> as pe										
Fire reaction	<u></u>	Euroclass A2-s1, d0 as per EN 13501-1         RUS KM1 (G1, V1, D1, T1) as per 123-FZ           Class A as per ASTM E 84         RUS KM1 (G1, V1, D1, T1) as per 123-FZ										
Light reflectance	7	85%										
Thermal conductivity	£	$\lambda = 0.060 \text{ W/m}$	<b>1k</b> as per EN 12	2667								
Air permeability	TIT	<b>PM1</b> (≤ 30 m³/h	m²) as per DIN	18177								
Humidity resistance	<b>\</b>	95% RH										
Indoor air quality	<b>(</b>	A+	N 13964									
Cleanability		P										
Sustainability		<b>%</b>	EPD ISO 14025	2008 Annex Q	www.blaue	er-engel.c	<b>1e</b> /uz132					



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# ARMSTRONG FINE FISSURED

and the same pro-

• Armstrong FINE FISSURED offers a non-directional surface and provides a cost-effective solution for Class C sound absorption

- Good sound absorption (0.60(H)  $\alpha_{\rm w})$
- Good light reflectance (85%)
- Ideal for meeting rooms, circulation and waiting areas





## **ARMSTRONG FINE FISSURED**

Edge details		Board	Tegular 24			Tegula	r 15		
Additional edge details on request						<u></u>			
Thickness (mm)	↓ ↑	15 - 19	15 - 19			15			
Dimensions (mm) Additional sizes on request	<b>k</b> i>	600 x 600 1200 x 600	600 x 600			600 x	600		
System		Exposed demountable - System	С						
Weight		3.8 - 5.0 kg / m²							
Colour		White							
Sound absorption		EN ISO 354 α <sub>w</sub> = <b>0.60(H)</b> as per EN ISO 11	654 - <b>Class C</b>						
		Frequency f (Hz)		125	250	500	1000	2000	4000
		α <sub>p</sub> NRC = <b>0.60</b> as per ASTM C 42	3	0.40	0.40	0.55	0.75	0.75	0.75
Sound attenuation		EN ISO 10848-2 D <sub>n,f,w</sub> = <b>32 dB</b> (15mm) as per EN ISO 717-1 CAC = <b>32 dB</b> (15mm) as per ASTM E 413-10 CAC = <b>38 dB</b> (19mm) as per ASTM E 413-10							
Fire reaction	<b>F</b>	Euroclass <b>A2-s1, d0</b> as per EN 13501-1 RUS <b>KM1 (G1, V1, D1, T1)</b> as per 123-FZ						3-FZ	
Light reflectance		85%							
Thermal conductivity	A	λ = <b>0.060 W/mk</b> as per EN 1	2667						
Humidity resistance	<b>\$</b> \$	95% RH							
Indoor air quality	<b>(</b>		A LAR COM						
Cleanability		2							
Sustainability		EN ISO 14021 43 - 48%							



# AMF THERMATEX® Feinfresko



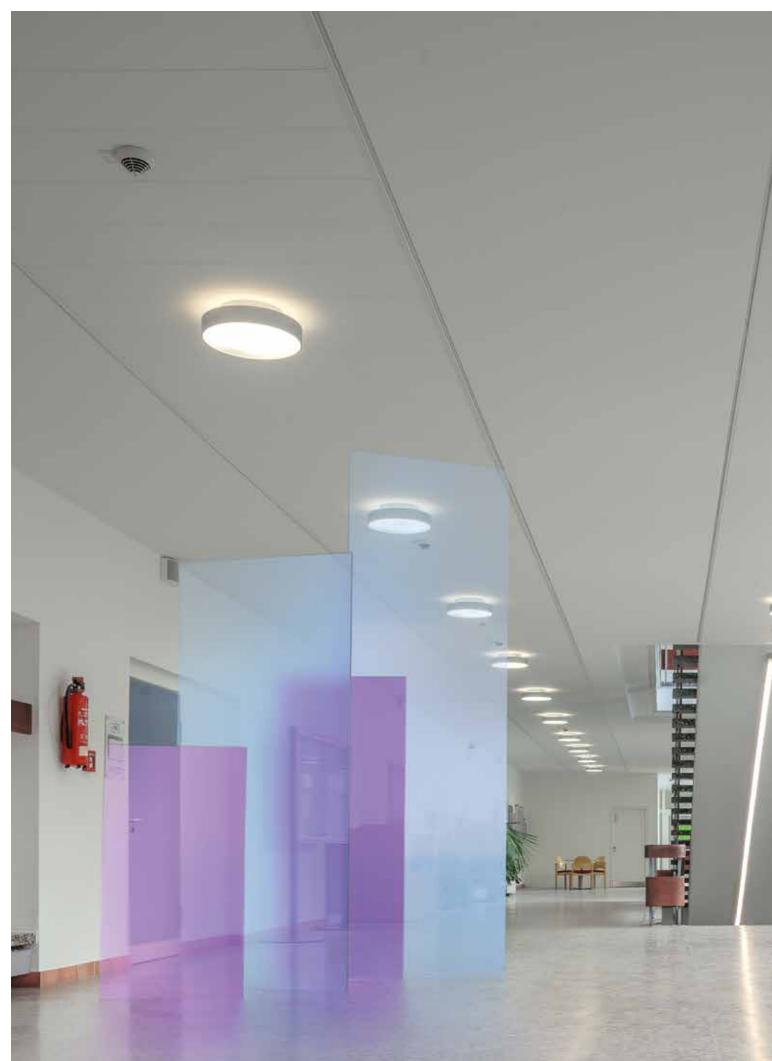
- AMF THERMATEX<sup>®</sup> Feinfresko features an uneven textured finish and offers good sound absorption for better acoustic comfort
- Good sound absorption (0.60 (H)  $\alpha_w$ )
- High sound attenuation (32 dB)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas





## **AMF THERMATEX® FEINFRESKO**

Edge details	Board	Tegular 24
Additional edge details	Ŷ	Û
on request		
Thickness (mm)	15	15
Dimensions (mm)	600 × 600 625 × 625	600 x 600 625 x 625
Additional sizes on request	1200 × 600 1250 × 625	023 x 023
System	Exposed demountable - System C	
Weight Kg	3.6 - 3.8 kg / m²	
Colour	White	
Sound absorption	EN ISO 354 a, = <b>0.60 (H)</b> as per EN ISO 11654 - <b>Class C</b>	
	Frequency f (Hz)	125 250 500 1000 2000 4000
		0.45 0.40 0.50 0.70 0.80 0.75
	NRC = <b>0.60</b> as per ASTM C 423	
Sound attenuation	EN ISO 10848-2 D <sub>n,f,w</sub> = <b>32 dB</b> as per EN ISO 717-1	CAC = <b>32 dB</b> as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R <sub>w</sub> = <b>21 dB</b> as per EN ISO 717-1	
Fire reaction	Euroclass <b>A2-s1, d0</b> as per EN 13501-1	RUS <b>KM1 (G1, V1, D1, T1)</b> as per 123-FZ
Light reflectance	83%	
Thermal conductivity	λ = <b>0.060 W/mk</b> as per EN 12667	
Air permeability	<b>PM1</b> (≤ 30 m³/hm²) as per DIN 18177	
Humidity resistance	90% RH	
Indoor air quality	A+ E1 IACG	
Cleanability		
Sustainability	28         2000         2	





# Fire Protection

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 Sixty<sup>2</sup> 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.

#### • XL<sup>2</sup> CROSS TEES – "Click" installation

Prelude XL<sup>2</sup> Cross Tees feature an advanced stab system that locates with an audible click, ensuring a solid installation at all times.

#### • TL<sup>2</sup> 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.



#### **DESIGN SOLUTIONS**



**Silhouette XL**<sup>2</sup> 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.



**Interlude HRC XL<sup>2</sup>** is a unique double reveal solution developed to allow flexibility of layout for creative ceiling solutions and give a clean sophisticated appearance.

#### **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**<sup>®</sup> is a specific installation method for Prelude 24 grid with XL<sup>2</sup> 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.



## 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<sup>®</sup>, 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.

## **KNAUFCEILING** Solutions

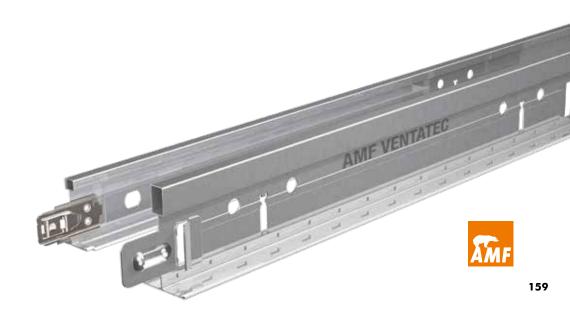
# Individual and flexible ceiling grid structure

The AMF VENTATEC<sup>®</sup> 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<sup>®</sup> grid system in combination with AMF THERMATEX<sup>®</sup> ceiling tiles protecting all relevant soffit types.









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