KNAUF CEILING Solutions

MINERAL SOLUTIONS

Build on us.

Experience More Innovation

Contents

Experience More Innovation	4 – 5
Production Network	6 – 7
Acoustical Solutions for Every Space	8
Fire Performance	9
Healthy Interiors	10
Visual Comfort	11
Office	12 – 13
Education	14 – 15
Retail	16 – 17
Leisure & Hospitality	18 – 19
Healthcare & Hygiene	20 – 21
Transport	22 – 23
Design	24 – 43
MINERAL Baffle Element	26 – 27
MINERAL Baffle Element Arc	28 – 29
MINERAL Baffle Line L / N	30 – 31
MINERAL Sonic Element	32 – 33
MINERAL Sonic Line Arc	34 – 35
MINERAL Sonic Line	36 – 37
MINERAL Wallcoustic Element	38 – 39
MINERAL Wallcoustic Line	40 – 41
FABRIC Wallcoustic Line	42 – 43
Focus: VARIOLINE	44 – 55
VARIOLINE Motif	46 – 47
VARIOLINE Metal	48 – 49
VARIOLINE Wood	50 – 51
VARIOLINE Symetra	52 – 53
VARIOLINE Colour	54 – 55
Seamless Acoustic	56 – 59
ELEGANZA	58 – 59
ADAGIO Range	60 – 73
ADAGIO Acoustic+	62 – 63
ADAGIO Alpha+	64 – 65
ADAGIO dB+	66 – 67
ADAGIO HD+ 19 mm	68 – 69
ADAGIO HD+ 30 mm	70 – 71
ADAGIO HD+ 35 mm	72 – 73
Healthcare & Hygiene	74 – 95
MEDIGUARD Alpha	76 – 77
MEDIGUARD Acoustic	78 – 79
MEDIGUARD Plain	80 – 81
HYGENA Aquatec	82 – 83
HYGENA Alpha	84 – 85
HYGENA Acoustic 15mm	86 – 87
HYGENA Plain	88 – 89
AMF THERMATEX® Aquatec	90 – 91
AMF THERMATEX® Thermaclean	92 – 93
NEWTONE	94 – 95
Smooth White Acoustic	96 – 135
AMF THERMATEX® Acoustic	98 – 99
AMF THERMATEX® Alpha	100 – 101
AMF THERMATEX® Alpha Colour	102 – 103
AMF THERMATEX® Alpha HD 19mm	104 – 105
AMF THERMATEX® Alpha HD 30mm	106 – 107
AMF THERMATEX® Alpha HD 35mm	108 – 109
AMF THERMATEX® Alpha ONE	110 – 111
AMF THERMATEX® dB Acoustic	112 – 113
AMF THERMATEX® Thermofon	114 – 115
AMF TOPIQ® Efficient Pro	116 - 117
AMF TOPIQ® Prime	118 - 119
Antaris	120 - 121
Antaris C	122 - 123
Classic Sanded	124 - 125
AMF THERMATEX® Feinstratos	126 - 127
AMF THERMATEX® Feinstratos Micro	128 - 129
Classic Fissured/Perforated	130 - 131
Star 15mm	132 - 133
AMF THERMATEX® Mercure	134 - 135
AMF THERMATEX® Feinfresko	136 - 137
Fire Performance	138 - 139
Acoustic Technical Glossary	140 - 141
Definitions of Technical Performance Icons	142 - 143

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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 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.

Production Network

Experience our large and comprehensive network

Through the local presence of nine state-of-the-art production facilities in six 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 Pontarlier (FR)
Mineral

03 Valenciennes (FR)
Grid

04 Dreux (FR)
Grid

05 Ferndorf (AT)
Wood Wool

06 Rankweil (AT)
Metal

07 Antwerp (BE)
Slitting

APAC

08 Wujiang (CN)
Mineral & Grid

09 Pune (IN)
Grid

Acoustical Solutions for Every Space

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 Performance

Structural Fire Protection

Throughout Europe, there is a requirement for a building's structure to be protected from fire. This is primarily for the structure to remain stable during a fire to allow the occupants to escape and also to enable fire fighters to work without threat of the building's collapse.

The duration of the required protection will usually depend upon the height of, and location within, the building (i.e. typical floor, basement, roof construction etc), whether there is any active methods of fire protection (sprinklers etc.) and the type of construction to be protected (steel beams, timber or mezzanine floors etc). In the case of structural fire protection, the suspended ceiling is classified together with the soffit and the complete construction.

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

Independent Fire Resistance

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

In case of a fire in the ceiling void (incidentally, the most common fire source) the underlying escape routes are protected by AMF THERMATEX® Uno fire rated ceiling for 30 minutes.
Fire resistant certificates such as the German abP-certificates are available on request.

Fire Reaction

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

In certain indoor spaces such as laboratories

It is essential to limit the number of airborne particles by creating a Clean Room type environment using products certified in accordance with ISO 14644-1.
Knauf Ceiling Solutions offers solutions for areas requiring minimal to the most stringent requirements.

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

© Frederic Schweizer

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)

Visual Comfort

Challenge

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

Solution

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

A well-design ceiling with high light reflectance:
- Improves space Illumination, allowing for fewer light fixtures
- Reduces electrical light output and lowers maintenance costs
- Reduces cooling load

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

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

© Szymon Polański

Cradle To Cradle Certified®

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

©Kalibre

Workplaces that Work Better

OFFICE

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

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.

© Studio Maggi/Moreno Maggi

Create Spaces to Inspire

© Nike Bourgeois

Shaping the Retail Experience

RETAIL

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 environment — 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

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.

© Dion de Bakker

Make Yourself at Home

Creating Safe Spaces

HEALTHCARE & HYGIENE

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

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.

© Szymon Polański

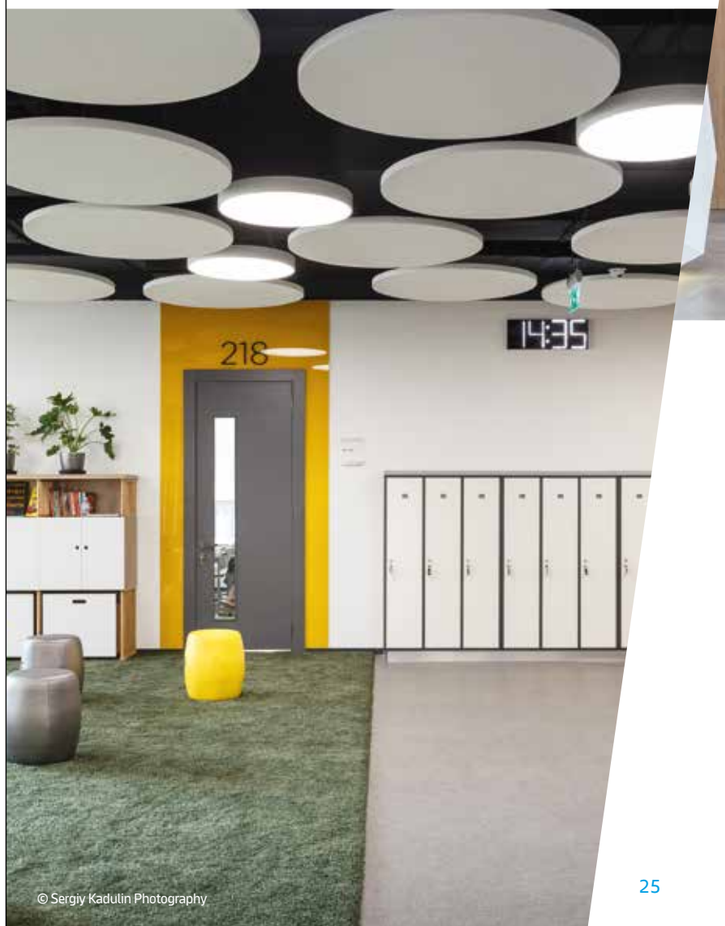
Architecture that Moves People

Creativity, Design and Diversity

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.

© Sergiy Kadulin Photography



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KNAUF CEILING Solutions

LUCRON Seinerka Business Centre, Slovakia (© BoysPlayNice)

Vertical Baffle Systems

MINERAL Baffle Element

Individual / Grouped

Build on us.

MINERAL Baffle Element is a range of high performance acoustical baffles with a white laminate surface for a modern linear appearance.

- Good sound absorption: reduce noise levels, increase intelligibility and reduce reverberation time in a space
- Typically used to provide high levels of acoustic absorption in offices, leisure centres, transport hubs, etc

MINERAL Baffle Element

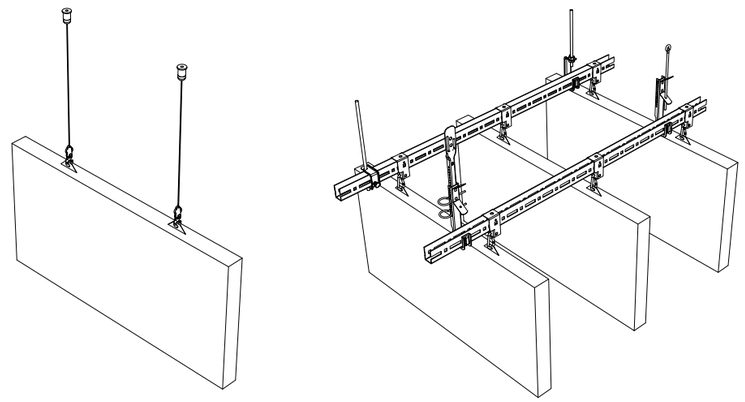
Individual / Grouped

KNAUF CEILING Solutions

Characteristic	Detailed information
Thickness (mm)	39 Additional dimensions available on request
Dimensions (mm)	1200 x 300 1200 x 400 1800 x 300 1800 x 400
System	Hanging Wire Kit U Profile grouping option T Grid grouping option
Weight	1200 x 300: **3.8 kg / pc** 1200 x 400: **5.0 kg / pc** 1800 x 300: **5.6 kg / pc** 1800 x 400: **7.5 kg / pc**
Colour & design	**Vario Design Colours** White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete
Sound absorption	EN ISO 354 — αw = **0.50(MH)** (300mm) as per EN ISO 11654
Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Humidity resistance	**90%**
Indoor air quality	A+ (A+ A B C); E1 (EN 13964); IACG (Indoor Air Comfort eurofins Gold Certified Product)
Cleanability	
Sustainability	BIOSOLUBLE WOOL, EC 1272/2008 Annex G

Frequency f (Hz)	125	250	500	1000	2000	4000
Baffles 1200 x 300mm, α_p Row distances 300mm	0.15	0.25	0.45	0.90	0.90	0.95

NRC = **0.65** (300mm) as per ASTM C 423



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KNAUF CEILING Solutions

Vertical Baffle Systems

MINERAL Baffle Element Arc

Individual / Grouped

Ivanja Reka Primary School, Croatia (© Jakub Joachim)

With MINERAL Baffle Element Arc you can create exciting interiors without compromising acoustic performance, even with modern exposed soffit ceilings

- Modern curved appearance
- Reduce noise levels, increase speech intelligibility and reduce reverberation time in the space
- Install individually or in groups
- Typically used in schools, offices, leisure centres, transport hubs, etc.

Build on us.

MINERAL Baffle Element Arc

Individual / Grouped

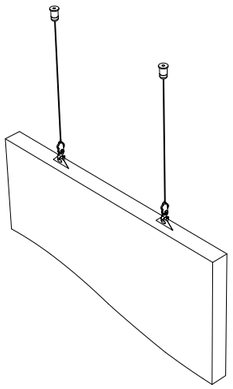
KNAUF CEILING Solutions

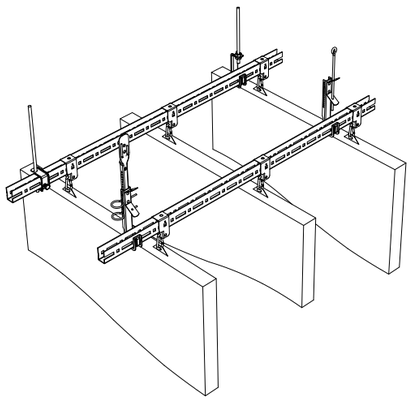
Characteristic	Detailed information
Thickness (mm)	39
Dimensions (mm)	1200 x 400 1800 x 400 Additional sizes on request
System	Hanging Wire Kit U-Profile grouping option T-Grid Main Runner grouping option
Weight	1200 x 400: **5.0 kg/pc** 1800 x 400: **7.5 kg/pc**
Colour & design	**Vario Design Colours**: White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete
Sound absorption	EN ISO 354 — αw = **0.50(MH)** (300mm) as per EN ISO 11654
Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Humidity resistance	**90%**
Indoor air quality	A+ ; E1 (EN 13964) ; IACG
Cleanability	
Sustainability	BIOSOLUBLE WOOL, EC 1272/2008 Annex G

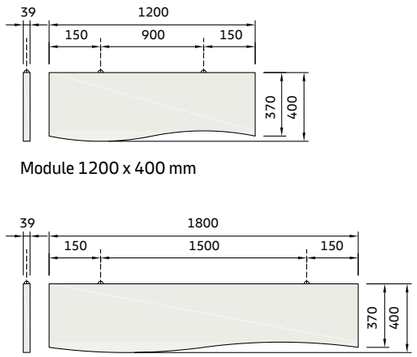
Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Row distances 300mm	0.15	0.25	0.45	0.90	0.90	0.95

NRC = **0.65** as per ASTM C 423

MINERAL Baffle Element Arc







Module 1200 x 400 mm

Module 1800 x 400 mm

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KNAUF CEILING Solutions

Vertical Baffle Systems

MINERAL Baffle Line L/N

Individual / Grouped (only MINERAL Baffle Line L)

MINERAL Baffle Line L and Line N features an aluminium frame and white laminate surface for a modern linear appearance. MINERAL Baffle Line L and Line N are also available in a variety of colours or customised graphic prints on request

- Good sound absorption: reduce noise levels, increase intelligibility and reduce reverberation time in a space
- Typically used to provide high levels of acoustic absorption in offices, leisure centres, transport hubs, etc

Build on us.

MINERAL Baffle Line L/N

Individual / Grouped (only MINERAL Baffle Line L)

KNAUF CEILING Solutions

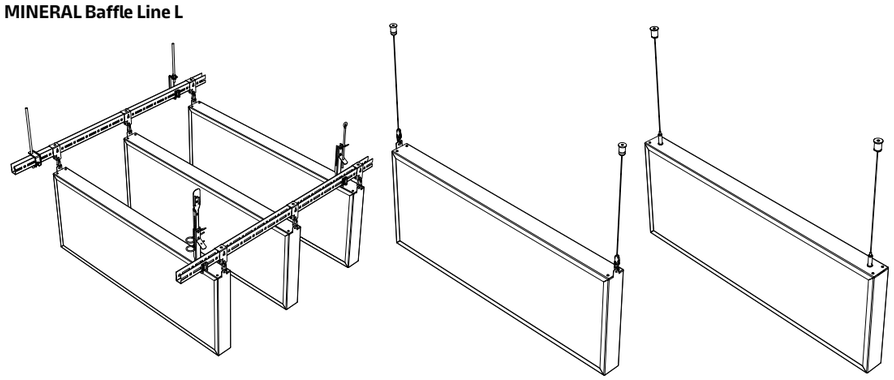
Characteristic	Detailed information
Thickness (mm)	50
Dimensions (mm)	1200 x 300 1200 x 400 1800 x 300 1800 x 400 Additional sizes on request
System	MINERAL Baffle Line N - wire hanger with top screw thread MINERAL Baffle Line L - wire hanger with tab connector MINERAL Baffle Line L - U-Profile and carabiner with tab connector
Weight	1200 x 300: **3.2 kg/pc** 1200 x 400: **4.1 kg/pc** 1800 x 300: **4.7 kg/pc** 1800 x 400: **6.0 kg/pc**
Colour & design	**Frame:** Anodised Aluminium, White, Colours **Vario Design Colours** White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete **Motif:** Custom Graphic Print
Sound absorption	EN ISO 354 — α_w = **0.60(MH)** (300mm) as per EN ISO 11654

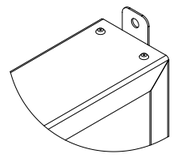
Frequency f (Hz)	125	250	500	1000	2000	4000
Baffles 1200 x 300mm, α_p Row distances 300mm	0.35	0.40	0.55	0.90	0.90	0.90

NRC = **0.65** as per ASTM C 423

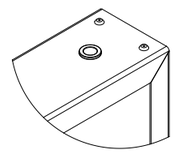
Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Light reflectance	**88%**
Humidity resistance	**90%**
Cleanability	
Sustainability	BIOSOLUBLE WOOL, EC 1272/2008 Annex G

MINERAL Baffle Line L





MINERAL Baffle Line L



MINERAL Baffle Line N

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KNAUF CEILING Solutions

Floating Canopy Systems

MINERAL Sonic Element

Individual / Grouped

Stanley Black & Decker, Poland, © Szymon Polański

Build on us.

MINERAL Sonic Element is a frameless and jointless ceiling raft.

- It 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

MINERAL Sonic Element

Individual / Grouped

KNAUF CEILING Solutions

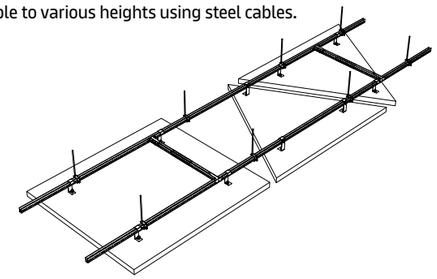
Characteristic	Detailed information
Thickness (mm)	40
Dimensions (mm)	Trapezoid 1180 x 870; Hexagon 1363 x 1180; Left Parallelogram 1180 x 1180; Right Parallelogram 1180 x 1180; Square 800 x 800; Square 1180 x 1180; Rectangle 1180 x 580; Rectangle 1780 x 880; Rectangle 1780 x 1180; Rectangle 2380 x 1180; Circle Ø800; Circle Ø1200; Circle Ø1600; Convex 1170 x 1170; Concave 1170 x 1020; Triangle 1180 x 1022 Additional sizes on request
System	Individual: Wire Hanger Grouped: U-Profile
Weight	**6.0 kg/m2**
Colour & design	**Vario Design Colours**: White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete
Sound absorption	EN ISO 354

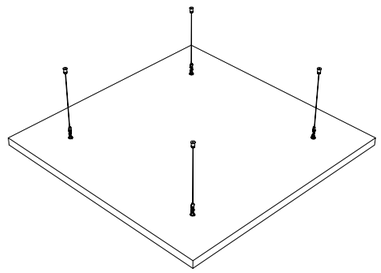
Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000
Square: 1180 x 1180mm / Suspension height 190mm	0.40	1.20	2.20	2.40	2.40	2.30
Rectangle: 1780 x 1180mm / Suspension height 190mm	0.80	2.10	3.10	3.30	3.50	3.40
Rectangle: 2380 x 1180mm / Suspension height 190mm	0.80	2.70	4.20	4.40	4.50	4.30
Circle: Ø1200mm / Suspension height 150mm	0.40	1.00	1.70	1.80	2.00	1.90

*Values shown are the average of the 3 one third octave band values

Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Light reflectance	Up to **88%**
Humidity resistance	**90%**
Indoor air quality	A; EN 13964 E1; IAC
Cleanability/ Sustainability	

Flexible design and adjustable to various heights using steel cables.





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KNAUF CEILING Solutions

Floating Canopy Systems

MINERAL Sonic Line Arc

Individual

Ursulinengymnasium Würzburg, Germany, © Rolf Nachbar

Build on us.

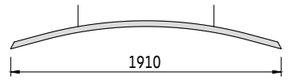
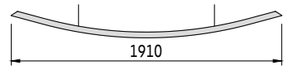
Create unique, elegant designs with an array of MINERAL Sonic Line Arc concave and convex canopies

- Play with custom colours to create exciting contrasting effects
- MINERAL Sonic Line Arc allows you express your creativity and accentuate an area using new spacial effects

MINERAL Sonic Line Arc

Individual

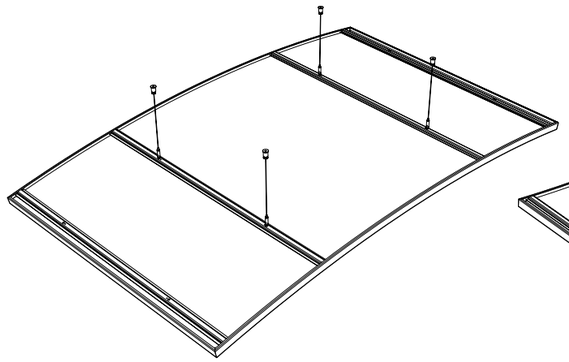
KNAUF CEILING Solutions

Characteristic	Detailed information
Edge details	**MINERAL Sonic Line Arc Concave**  **MINERAL Sonic Line Arc Convex** 
Thickness (mm)	35
Dimensions (mm)	1910 x 1180
System	Wire Hanger
Weight	**16.0 kg/pc**
Colour & design	**Vario Design Colours**: White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete
Sound absorption	EN ISO 354
Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Light reflectance	Up to **88%**
Humidity resistance	**90%**
Cleanability/ Sustainability	BIOSOLUBLE WOOL EC 1272/2008 Annex Q

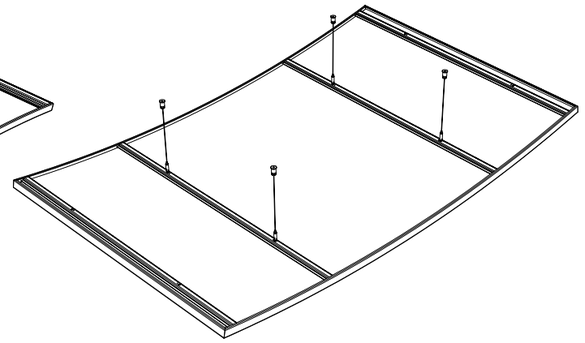
Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000
Square: 1180 x 1180mm / Suspension height 190mm	0.40	1.60	2.40	2.70	3.20	3.40

*Values shown are the average of the 3 one third octave band values

MINERAL Sonic Line Arc Concave



MINERAL Sonic Line 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.

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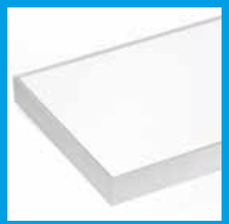
KNAUF CEILING Solutions

Floating Canopy Systems

MINERAL Sonic Line

Individual



Sports Centre Viding Alcántara, Madrid, Spain © Victor Sajara Photography

Build on us.

MINERAL Sonic Line is a ceiling raft with an aluminium frame.
The flexible suspension with fine, steel cables enables the height to be individually adjusted as required

- Available with a standard white laminate surface and can be customised in a variety of colours or bespoke printed motifs on request
- Aesthetically defines spaces in schools, offices leisure centres, retail spaces etc.

MINERAL Sonic Line

Individual

KNAUF CEILING Solutions

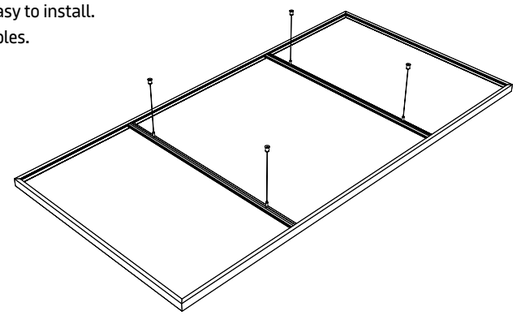
Characteristic	Detailed information
Thickness (mm)	43
Dimensions (mm)	1200 x 600 1200 x 1200 1800 x 1200 2400 x 1200
System	Wire Hanger
Weight	1200 x 600: **5.0 kg/pc** 1200 x 1200: **10.0 kg/pc** 1800 x 1200: **15.0 kg/pc** 2400 x 1200: **20.0 kg/pc**
Colour & design	**Frame:** Anodised Aluminium, White, Colours **Vario Design Colours** White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete **Motif:** Custom Graphic Print
Sound absorption	EN ISO 354

Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000
1200 x 1200mm Suspension height 193mm	0.40	1.10	1.60	2.00	2.10	2.00
2400 x 1200mm Suspension height 193mm	0.90	1.90	3.00	3.40	3.80	3.70

*Values shown are the average of the 3 one third octave band values

Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Light reflectance	Up to **88%**
Humidity resistance	**90%**
Cleanability/ Sustainability	BIOSOLUBLE WOOL EC 1272/2008 Annex G

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



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Bishopsgate Institute, United Kingdome © 2010 Philip Durrant Photography

Wall Systems

MINERAL Wallcoustic Element

Individual / Grouped

MINERAL Wallcoustic Element is a frameless and jointless wall abosorber. It also benefits from a fully colour coated face and reverse laminate fleece

- The monolithic wall absorber offers excellent sound absorption properties and endless design possibilities for ambitious architects, who seek to raise the visual and acoustic quality of interior spaces
- The wall panel is delivered in one piece and is quick and easy to install using spiral anchors and wall brackets

Build on us.

MINERAL Wallcoustic Element

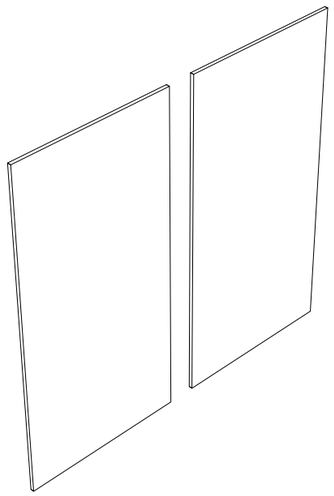
Individual / Grouped

KNAUF CEILING Solutions

Characteristic	Detailed information
Thickness (mm)	40
Dimensions (mm)	Square 1180 x 1180 Square 800 x 800 Rectangle 1180 x 580 Rectangle 1780 x 880 Rectangle 1780 x 1180 Additional sizes on request
System	Spiral anchor Wall brackets
Weight	**6.0 kg/m2**
Colour & design	**Vario Design Colours** White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete
Sound absorption	EN ISO 354
Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Light reflectance	Up to **88%**
Humidity resistance	**90%**
Cleanability/ Sustainability	BIOSOLUBLE WOOL EC 1272/2008 Annex G

Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000
Square: 1180 x 1180mm / Suspension height 190mm	0.40	1.20	1.90	1.90	1.90	1.80
Rectangle: 1780 x 1180mm / Suspension height 190mm	0.50	1.70	2.70	2.80	2.80	2.60

*Values shown are the average of the 3 one third octave band values



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Knauf Ceiling Solutions, Germany, ©Fotostudio Eder

Wall Systems

MINERAL Wallcoustic Line

Individual

MINERAL Wallcoustic Line is a pre-assembled aluminium framed wall absorber with a standard white, laminate surface finish. It can also be ordered in a variety of colours or customised printed motifs on request

- Customise and enhance the visual appearance and acoustic ambience in any space
- The wall panel is delivered in one piece and is quick and easy to install using eccentric screws and installation key

Build on us.

MINERAL Wallcoustic Line

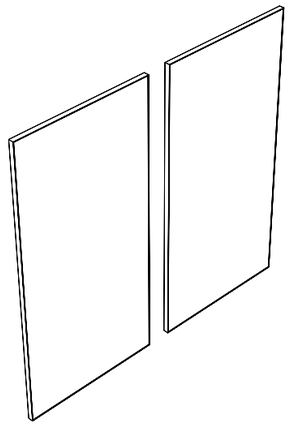
Individual

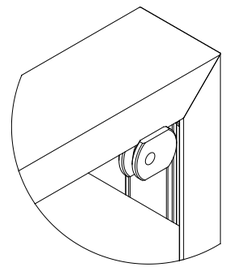
KNAUF CEILING Solutions

Characteristic	Detailed information
Thickness (mm)	43
Dimensions (mm)	1200 x 600 1200 x 1200 1800 x 1200 2400 x 1200 Additional sizes on request
System	Eccentric bracket
Weight	**9.4 kg/m2**
Colour & design	**Frame:** Anodised Aluminium, White, Colours **Vario Design Colours** White, Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete **Motif:** Custom Graphic Print
Sound absorption	EN ISO 354
Fire reaction	Euroclass **A2-s1,d0** as per EN 13501-1
Light reflectance	Up to **88%**
Humidity resistance	**90%**
Cleanability/ Sustainability	BIOSOLUBLE WOOL EC 1272/2008 Annex G

Frequency f (Hz) Equivalent Absorption Area Aobj*	125	250	500	1000	2000	4000
Rectangle: 1200 x 600mm	0.20	0.60	1.00	0.90	0.80	0.90
Square: 1200 x 1200mm	0.50	1.10	1.60	1.50	1.50	1.50
Rectangle: 1800 x 1200mm	0.60	1.90	2.50	2.40	2.20	2.40
Rectangle: 2400 x 1200mm	1.10	2.20	3.10	3.10	3.00	3.10

*Values shown are the average of the 3 one third octave band values





Detail: Eccentric bracket

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KNAUF CEILING Solutions

Wall Systems

FABRIC Wallcoustic Line

Individual

FABRIC Wallcoustic Line is a fabric covered wall absorber with an elegant aluminium frame and can be easily customised using individual patterns or images.
The aluminium frame is supplied with an all-round groove into which the printed fabric is inserted. The fabric covering can be easily removed and replaced with a new fabric design, without using any special tools

- FABRIC Wallcoustic Line 20: Lightweight profile for one-sided coverings in small sizes
- FABRIC Wallcoustic Line 27: Profile for all sizes with one-sided coverings
- FABRIC Wallcoustic Line 50: Profile for all sizes with one-sided coverings and a highly absorbing acoustic filling

Build on us.

FABRIC Wallcoustic Line

Individual

KNAUF CEILING Solutions

Characteristic	Detailed information		
Thickness (mm)	43	27	50
Dimensions (mm)	600 x 600 1200 x 600	1200 x 1200 1800 x 1200 2400 x 1200 2400 x 2400	600 x 600 1200 x 600 1200 x 1200 1800 x 1200 2400 x 1200 2400 x 2400
System	Wall bracket		
Weight	**3.0 - 6.0 kg/m2**		
Colour & design	**Frame:** anodised aluminium, white, RAL colours **FABRIC Wallcoustic Line 20:** fabric, white or Custom Graphic Print **FABRIC Wallcoustic Line 27:** fabric, white or Custom Graphic Print **FABRIC Wallcoustic Line 50:** fabric, white or Custom Graphic Print		

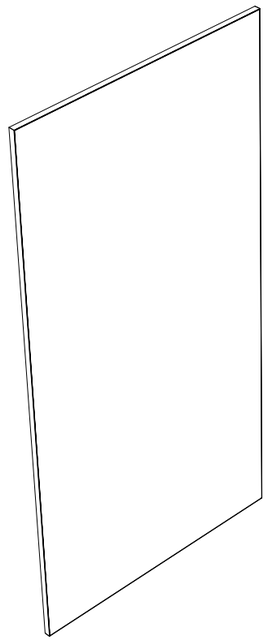
Sound absorption — EN ISO 354

Frequency f (Hz) **Equivalent Absorption Area Aobj***	**125**	**250**	**500**	**1000**	**2000**	**4000**
Rectangle: 1200 x 600mm	0.30	0.90	1.90	1.90	1.80	1.60

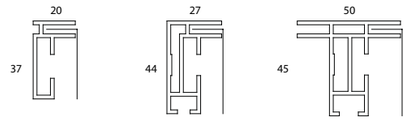
*Values shown are the average of the 3 one third octave band values

Humidity resistance	**90%**
Cleanability	

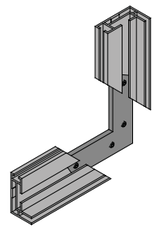
FABRIC Wallcoustic Line



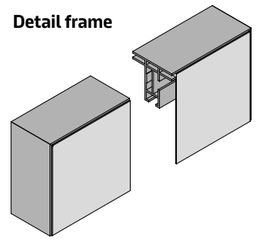
Profile cross-sections



Corner connection



Detail frame



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© 2018. Milos Manojlovic

Experience More Possibilities

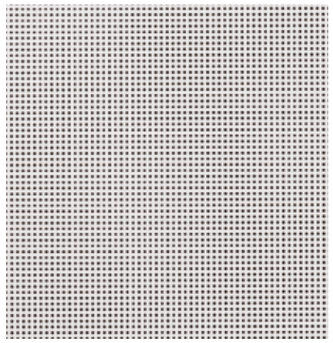
VARIOLINE

With 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.

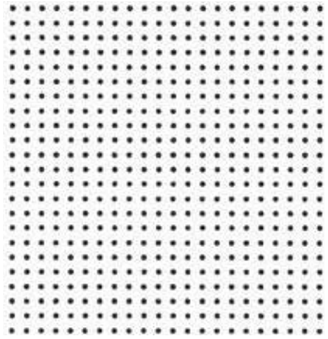
Individual motif designs are also available to help customise and enhance the ambience of any space.

Choose from any of the following solutions – Varioline Motif, Varioline Metal, Varioline Wood, Varioline Symetra and Varioline Colour to meet the acoustic, aesthetic and fire performance needs of your project.

Varioline Motif


Varioline Metal

Varioline Wood


Varioline Symetra

KNAUF CEILING Solutions

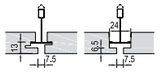
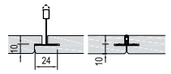
VARIOLINE Motif

VARIOLINE Motif is a range of printed mineral ceilings that provides the capability for customised printed motifs, pictures or logos

- The laminated acoustic surface provides up to Class A sound absorption performance
- Available in a wide range of edge details to suit all design and installation needs
- Ideal for offices, foyers and retail spaces

Build on us.

VARIOLINE Motif

Characteristic	Detailed information					
Edge details	**VARIOLINE Motif (Alpha)**			**VARIOLINE Motif (dB)**	**VARIOLINE Motif (Acoustic)**	**VARIOLINE Motif (HD)**
	Board	Tegular 24/90	Tegular 15/90	Vector 	SL2	Finesse 
Thickness (mm)	19	19	19	24	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 1200 x 600	600 x 600 625 x 625 1200 x 600	On Request	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C			Semi-concealed tiles, demountable - System C	Semi-concealed planks, demountable - System I.3 (Bandraster - System I.2 / Corridor - System F.2)	Concealed, demountable - System A.2 / A.3
Weight	**3.3 kg/m2** (Board, Tegular 24/90, Tegular 15/90) **5.0 kg/m2** (SL2) **5.2 kg/m2** (Finesse) **8.6 kg/m2** (Vector)					
Colour & design	Customised Printed Motifs					
Sound absorption	EN ISO 354	α_w = **0.95** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 11654 - **Class A** α_w = **0.65 (H)** (Vector, SL2) as per EN ISO 11654 - **Class C** α_w = **0.90** (Finesse) as per EN ISO 11654 - **Class A**					

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p Board, Tegular 24/90, Tegular 15/90	0.50	0.80	0.90	0.90	1.00	1.00
α_p Vector	0.45	0.40	0.60	0.80	0.95	1.00
α_p SL2	0.50	0.45	0.60	0.85	0.95	0.95
α_p Finesse	0.50	0.70	0.80	0.90	1.00	1.00

NRC = **0.90** (Board, Tegular 24/90, Tegular 15/90) as per ASTM C 423
NRC = **0.70** (Vector, SL2) as per ASTM C 423
NRC = **0.85** (Finesse) as per ASTM C 423

Sound attenuation	$D_{n,f,w}$ = **28 dB** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 717-1 $D_{n,f,w}$ = **34 dB** (Finesse) as per EN ISO 717-1 $D_{n,f,w}$ = **38 dB** (Vector) as per EN ISO 717-1 $D_{n,f,w}$ = **40 dB** (SL2) as per EN ISO 717-1	CAC = **29 dB** (Board, Tegular 24/90, Tegular 15/90) as per ASTM E 413-10 CAC = **35 dB** (Finesse) as per ASTM E 413-10 CAC = **39 dB** (Vector) as per ASTM E 413-10
Fire reaction	Euroclass **A2-s1, d0 / C-s1,d0** as per EN 13501-1 (depending on the motif / picture / logo)	
Thermal conductivity	λ = **0.040 W/mk** (Board, Tegular 24/90, Tegular 15/90) as per EN 12667 λ = **0.075 W/mk** (Vector) as per EN 12667 λ = **0.060 W/mk** (SL2, Finesse) as per EN 12667	
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177	
Humidity resistance	**95% RH**	
Indoor air quality	A+	

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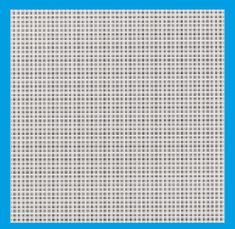
KNAUF CEILING Solutions

VARIOLINE Metal

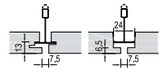
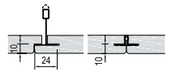


VARIOLINE Motif is a range of printed mineral ceilings that provides the capability for customised printed motifs, pictures or logos

- The laminated acoustic surface provides up to Class A sound absorption performance
- Available in a wide range of edge details to suit all design and installation needs
- Ideal for offices, foyers and retail spaces

Build on us.

KNAUF CEILING Solutions

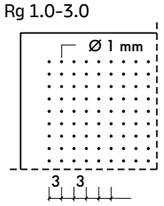
Characteristic	Detailed information					
Edge details	VARIOLINE Motif (Alpha)			VARIOLINE Motif (dB)	VARIOLINE Motif (Acoustic)	VARIOLINE Motif (HD)
	Board	Tegular 24/90	Tegular 15/90	Vector	SL2	Finesse
						
Thickness (mm)	19	19	19	24	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x600	600 x 600 1200 x 600	600 x 600 625 x 625 1200 x 600	On Request	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C			Semi-concealed tiles, demountable - System C	Semi-concealed planks, demountable - System I.3 (Bandraster - System I.2 / Corridor - System F.2)	Concealed, demountable - System A.2 / A.3
Weight	**3.3 kg/m2** (Board, Tegular 24/90, Tegular 15/90) **5.0 kg/m2** (SL2) **5.2 kg/m2** (Finesse) **8.6 kg/m2** (Vector)					
Colour & design	White, with printed patterns Rg 1.0-3.0, Rg 2.5-5.5, Rg 1.5-2.8D, Qg 3.0-8.5					
Sound absorption	EN ISO 354	α_w = **0.95** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 11654 - **Class A** α_w = **0.65 (H)** (Vector, SL2) as per EN ISO 11654 - **Class C** α_w = **0.90** (Finesse) as per EN ISO 11654 - **Class A**					

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Board, Tegular 24/90, Tegular 15/90	0.50	0.80	0.90	0.90	1.00	1.00
α_p Vector	0.45	0.40	0.60	0.80	0.95	1.00
α_p SL2	0.50	0.45	0.60	0.85	0.95	0.95
α_p Finesse	0.50	0.70	0.80	0.90	1.00	1.00

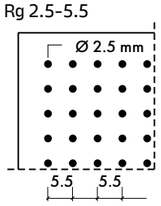
NRC = **0.90** (Board, Tegular 24/90, Tegular 15/90) as per ASTM C 423
NRC = **0.70** (Vector, SL2) as per ASTM C 423
NRC = **0.85** (Finesse) as per ASTM C 423

Sound attenuation	$D_{n,f,w}$ = **28 dB** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 717-1 $D_{n,f,w}$ = **34 dB** (Finesse) as per EN ISO 717-1 $D_{n,f,w}$ = **38 dB** (Vector) as per EN ISO 717-1 $D_{n,f,w}$ = **40 dB** (SL2) as per EN ISO 717-1	CAC = **29 dB** (Board, Tegular 24/90, Tegular 15/90) as per ASTM E 413-10 CAC = **35 dB** (Finesse) as per ASTM E 413-10 CAC = **39 dB** (Vector) as per ASTM E 413-10
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1	
Thermal conductivity	λ = **0.040 W/mk** (Board, Tegular 24/90, Tegular 15/90) as per EN 12667 λ = **0.075 W/mk** (Vector) as per EN 12667 λ = **0.060 W/mk** (SL2, Finesse) as per EN 12667	
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177	
Humidity resistance	**95% RH**	
Indoor air quality	A+	

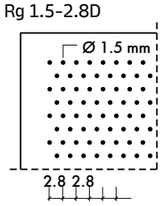
Rg 1.0-3.0



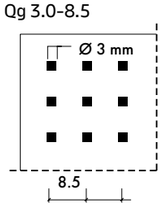
Rg 2.5-5.5



Rg 1.5-2.8D



Qg 3.0-8.5



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

07/2024

KNAUF CEILING Solutions

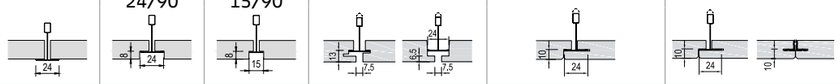
VARIOLINE Wood

VARIOLINE Wood is a range of printed mineral ceilings that provides the appearance and warmth of wood

- Choice of 6 different standard wood species for design flexibility
- The laminated acoustic surface provides up to Class A sound absorption performance
- Available in a wide range of edge details to suit all design and installation needs
- Ideal for offices, foyers and retail spaces

Build on us.

KNAUF CEILING Solutions

Characteristic	Detailed information					
Edge details	VARIOLINE Wood (Alpha)			VARIOLINE Wood (dB)	VARIOLINE Wood (Acoustic)	VARIOLINE Wood (HD)
	Board	Tegular 24/90	Tegular 15/90	Vector	SL2	Finesse
						
Thickness (mm)	19	19	19	24	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 1200 x 600	600 x 600 625 x 625 1200 x 600	On Request	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C			Semi-concealed tiles, demountable - System C	Semi-concealed planks, demountable - System I.3 (Bandraster - System I.2 / Corridor - System F.2)	Concealed, demountable - System A.2 / A.3
Colour	Ash, Birch, Cherry (EU), Cherry (US), Larch, Oak					
Weight	3.3 kg/m2 (Board, Tegular 24/90, Tegular 15/90) 5.0 kg/m2 (SL2) 5.2 kg/m2 (Finesse) 8.6 kg/m2 (Vector)					
Sound absorption	EN ISO 354			α_w = **0.95 (H)** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 11654 - **Class A** α_w = **0.65 (H)** (Vector, SL2) as per EN ISO 11654 - **Class C** α_w = **0.90 (H)** (Finesse) as per EN ISO 11654 - **Class A**			

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Board, Tegular 24/90, Tegular 15/90	0.50	0.80	0.90	0.90	1.00	1.00
α_p Vector	0.45	0.40	0.60	0.80	0.95	1.00
α_p SL2	0.50	0.45	0.60	0.85	0.95	0.95
α_p Finesse	0.50	0.70	0.80	0.90	1.00	1.00

NRC = **0.90** (Board, Tegular 24/90, Tegular 15/90) as per ASTM C 423
NRC = **0.70** (Vector, SL2) as per ASTM C 423
NRC = **0.85** (Finesse) as per ASTM C 423

Sound attenuation	$D_{n,f,w}$ = **28 dB** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 717-1 $D_{n,f,w}$ = **34 dB** (Finesse) as per EN ISO 717-1 $D_{n,f,w}$ = **38 dB** (Vector) as per EN ISO 717-1 $D_{n,f,w}$ = **40 dB** (SL2) as per EN ISO 717-1	CAC = **29 dB** (Board, Tegular 24/90, Tegular 15/90) as per ASTM E 413-10 CAC = **35 dB** (Finesse) as per ASTM E 413-10 CAC = **39 dB** (Vector) as per ASTM E 413-10
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1	
Thermal conductivity	λ = **0.040 W/mk** (Board, Tegular 24/90, Tegular 15/90) as per EN 12667 λ = **0.075 W/mk** (Vector) as per EN 12667 λ = **0.060 W/mk** (SL2, Finesse) as per EN 12667	
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177	
Humidity resistance	**95% RH**	
Indoor air quality	A1+	

Product availability may vary from country to country. Please contact your local sales representative.
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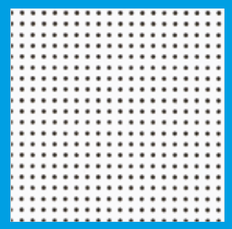
07/2024

KNAUF CEILING Solutions

VARIOLINE Symetra

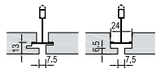
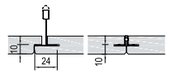


Build on us.

VARIOLINE Symetra is a fleece-coated, acoustic mineral tile that provides up to Class A sound absorption

- Available in a wide range of edge details to suit all design and installation needs
- Provides design flexibility with five printed perforated surface patterns to choose from
- Ideal for offices, foyers and retail spaces

KNAUF CEILING Solutions

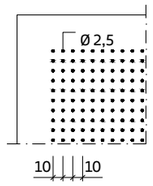
Characteristic	Detailed information					
Edge details	VARIOLINE Symetra (Alpha)			VARIOLINE Symetra (dB)	VARIOLINE Symetra (Acoustic)	VARIOLINE Symetra (HD)
	Board	Tegular 24/90	Tegular 15/90	Vector	SL2	Finesse
						
Thickness (mm)	19	19	19	24	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 1200 x 600	600 x 600 625 x 625 1200 x 600	On Request	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C			Semi-concealed tiles, demountable - System C	Semi-concealed planks, demountable - System I.3 (Bandraster - System I.2 / Corridor - System F.2)	Concealed, demountable - System A.2 / A.3
Weight	**3.3 kg/m2** (Board, Tegular 24/90, Tegular 15/90) **5.0 kg/m2** (SL2) **5.2 kg/m2** (Finesse) **8.6 kg/m2** (Vector)					
Colour & design	White, with printed patterns Rg 2.5-10, Rg 4-10, Rg 4-16, Rg 4-16 / 4x4, RS 15-20					
Sound absorption	EN ISO 354	α_w = **0.95** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 11654 - **Class A** α_w = **0.65 (H)** (Vector, SL2) as per EN ISO 11654 - **Class C** α_w = **0.90** (Finesse) as per EN ISO 11654 - **Class A**					

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Board, Tegular 24/90, Tegular 15/90	0.50	0.80	0.90	0.90	1.00	1.00
α_p Vector	0.45	0.40	0.60	0.80	0.95	1.00
α_p SL2	0.50	0.45	0.60	0.85	0.95	0.95
α_p Finesse	0.50	0.70	0.80	0.90	1.00	1.00

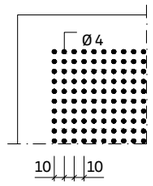
NRC = **0.90** (Board, Tegular 24/90, Tegular 15/90) as per ASTM C 423
NRC = **0.70** (Vector, SL2) as per ASTM C 423
NRC = **0.85** (Finesse) as per ASTM C 423

Sound attenuation	$D_{n,f,w}$ = **28 dB** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 717-1 $D_{n,f,w}$ = **34 dB** (Finesse) as per EN ISO 717-1 $D_{n,f,w}$ = **38 dB** (Vector) as per EN ISO 717-1 $D_{n,f,w}$ = **40 dB** (SL2) as per EN ISO 717-1	CAC = **29 dB** (Board, Tegular 24/90, Tegular 15/90) as per ASTM E 413-10 CAC = **35 dB** (Finesse) as per ASTM E 413-10 CAC = **39 dB** (Vector) as per ASTM E 413-10
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1	
Thermal conductivity	λ = **0.040 W/mk** (Board, Tegular 24/90, Tegular 15/90) as per EN 12667 λ = **0.075 W/mk** (Vector) as per EN 12667 λ = **0.060 W/mk** (SL2, Finesse) as per EN 12667	
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177	
Humidity resistance	**95% RH**	
Indoor air quality	A+	

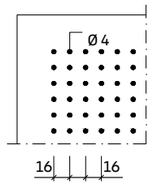
Rg 2.5-10



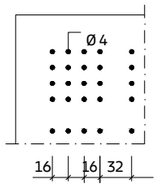
Rg 4-10



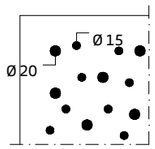
Rg 4-16



Rg 4-16 / 4x4



RS 15-20



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07/2024

KNAUF CEILING Solutions

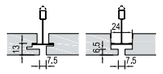
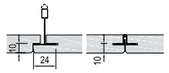
VARIOLINE Colour

VARIOLINE Colour is a range of printed mineral ceilings that provides the capability for custom colour tiles

- The laminated acoustic surface provides up to Class A sound absorption performance
- Available in a wide range of edge details to suit all design and installation needs
- Ideal for offices, foyers and retail spaces

Build on us.

KNAUF CEILING Solutions

Characteristic	Detailed information					
Edge details	**VARIOLINE Colour (Alpha)**			**VARIOLINE Colour (dB)**	**VARIOLINE Colour (Acoustic)**	**VARIOLINE Colour (HD)**
	Board	Tegular 24/90	Tegular 15/90	Vector	SL2	Finesse
						
Thickness (mm)	19	19	19	24	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 1200 x 600	600 x 600 625 x 625 1200 x 600	On Request	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C			Semi-concealed tiles, demountable - System C	Semi-concealed planks, demountable - System I.3 (Bandraster - System I.2 / Corridor - System F.2)	Concealed, demountable - System A.2 / A.3
Weight	**3.3 kg/m2** (Board, Tegular 24/90, Tegular 15/90) **5.0 kg/m2** (SL2) **5.2 kg/m2** (Finesse) **8.6 kg/m2** (Vector)					
Colour & design	All RAL and NCS colours are available for print					
Sound absorption	EN ISO 354	α_w = **0.95** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 11654 - **Class A** α_w = **0.65 (H)** (Vector, SL2) as per EN ISO 11654 - **Class C** α_w = **0.90** (Finesse) as per EN ISO 11654 - **Class A**					

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p Board, Tegular 24/90, Tegular 15/90	0.50	0.80	0.90	0.90	1.00	1.00
α_p Vector	0.45	0.40	0.60	0.80	0.95	1.00
α_p SL2	0.50	0.45	0.60	0.85	0.95	0.95
α_p Finesse	0.50	0.70	0.80	0.90	1.00	1.00

NRC = **0.90** (Board, Tegular 24/90, Tegular 15/90) as per ASTM C 423
NRC = **0.70** (Vector, SL2) as per ASTM C 423
NRC = **0.85** (Finesse) as per ASTM C 423

Sound attenuation	$D_{n,f,w}$ = **28 dB** (Board, Tegular 24/90, Tegular 15/90) as per EN ISO 717-1 $D_{n,f,w}$ = **34 dB** (Finesse) as per EN ISO 717-1 $D_{n,f,w}$ = **38 dB** (Vector) as per EN ISO 717-1 $D_{n,f,w}$ = **40 dB** (SL2) as per EN ISO 717-1 CAC = **29 dB** (Board, Tegular 24/90, Tegular 15/90) as per ASTM E 413-10 CAC = **35 dB** (Finesse) as per ASTM E 413-10 CAC = **39 dB** (Vector) as per ASTM E 413-10
Fire reaction	Euroclass **A2-s1, d0 / C-s1,d0** as per EN 13501-1 (depending on the colour)
Thermal conductivity	λ = **0.040 W/mk** (Board, Tegular 24/90, Tegular 15/90) as per EN 12667 λ = **0.075 W/mk** (Vector) as per EN 12667 λ = **0.060 W/mk** (SL2, Finesse) as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Indoor air quality	A+

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For further information and legal notice, please visit our website.

07/2024

ELEGANZA SEAMLESS ACOUSTICS

Creating future-focused, eco-friendly buildings doesn't just mean designing for how people will use a space. It means designing for how they'll feel using that space. Sustainability and wellbeing go hand in hand – which means your approach and the systems you use need to help you design for the senses. Open up welcoming spaces, minimise unwelcome noise.

That's why we created ELEGANZA: a ceiling system featuring seamless, monolithic looks to please the eye and outstanding sound absorption to cater for the ear. It's the perfect balance of sight and sound, beauty and performance – a surface that quietly enhances the spaces around people, improving their physical experience of them.

ELEGANZA puts sensory design at the core of your constructions. And as a complete system that's quicker, easier, more flexible and more cost-effective to install, it's also designed for another sense: common sense. So, everyone across the whole project team can feel better about the spaces you create.

Westfield Mall of the Netherlands © MVL Media Groep

Design for the Senses

ELEGANZA

© Mecanoo

ELEGANZA Seamless Acoustics offers a ground breaking new system with a 100% seamless finish featuring an elegant finely textured visual that is robust, durable and enduring. ELEGANZA Seamless Acoustics delivers high-quality sound absorption performance so you can have the best of both worlds: excellent sound absorption and a stunning seamless finish

- Excellent sound absorption (0.95 a_w)
- Enhanced endurance against surface pollution due to a sophisticated backfoil technology
- Ideal for restaurants, retail and leisure, office, education and residential

Build on us.

Characteristic	Detailed information
Edge details	**Seamless**
Thickness (mm)	25
Dimensions (mm)	2400 x 1200 (panel)
System	Seamless - Eleganza
Weight	Panel weight: **5.4 kg/m²** Finished ceiling[1]: **7.1 kg/m²**
Colour	White RAL colours available on request
Sound absorption	EN ISO 354 — α_w = **0.95** as per EN ISO 11654 - **Class A**

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.45	0.80	0.90	0.95	1.00	1.00

NRC = **0.50** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **33 dB** as per EN ISO 717-1 — CAC = **33 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **18 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** [2] as per EN 13501-1
Light reflectance	Up to **84%** (white)
Thermal conductivity	λ = **0.060 W/mK** as per EN 12667
Humidity resistance	**95% RH**
Indoor air quality	A+ — IACG
Cleanability / Sustainability	67% [2] (2023)

[1] Finished ceiling without substructure. This weight is indicative and may vary depending on the specifics of the installation, wastage, and application rates.
[2] Applies only to the panel.

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07/2024

ADAGIO RANGE

ADAGIO is the product of world-leading experience in ceiling design. Of cutting-edge thinking in everything from scratch resistance to acoustics, sustainability to design flexibility. It's a premium system built on the highest standards for better design, better installation and better spaces.

That's why ADAGIO can take your ceilings to the next level. You'll be inspired by how much more you can achieve with Knauf Ceiling Solutions.

Notino, Czech Republic (© Jiří Hloušek)

Experience More Choice than Ever Before

KNAUF CEILING Solutions

ADAGIO Acoustic+

Mineral ceiling

Build on us.

ADAGIO Acoustic+ offers a smooth, uniform, and durable surface with unparalleled scratch resistance and the brightest white visual available. Thanks to its exceptional air permeability (no filter effect), the surface remains whiter and brighter for an extended duration. The tile also provides a balance of both sound absorption and sound attenuation, as well as high light reflectance.

- Good sound absorption and high sound attenuation: 0.65 α_w and 39 dB (Board, Tegular 24/90, Tegular 15/90, SL2, SL2 / Tegular 15/90, Finesse) or 38 dB (Vector).
- Excellent light reflectance: 88%.
- ISO 4, Indoor Air Comfort Gold and Cradle to Cradle Certified® Bronze.
- ADAGIO Acoustic+: ideal for meeting rooms or waiting areas. ADAGIO Acoustic+ Planks: ideal for both open areas and corridors.

KNAUF CEILING Solutions

Characteristics	Detailed information						
Edge details	Board	Tegular 24/90	Tegular 15/90	Vector	SL2	SL2 / Tegular 15/90	Finesse
Thickness (mm)	19	19	19	24	19	19	19
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1350 x 300 1350 x 600 1500 x 600 1800 x 600	600 x 600 625 x 625	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300	1500 x 300 1800 x 300	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C		Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3	Semi-concealed tiles, demountable - System C	Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable - System I.2 Semi-concealed - Corridor, demountable - System F.2		Concealed, demountable - System A.2 / A.3
Weight	5.0 - 8.6 kg/m²						
Colour	White						

Sound absorption

EN ISO 354 — α_w = **0.65(H)** as per EN ISO 11654 - **Class C**

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p (Board, Tegular 24/90, Tegular 15/90, SL2, SL2 / Tegular 15/90, Finesse)	0.35	0.45	0.60	0.80	0.90	0.90
α_p (Vector)	0.40	0.45	0.60	0.80	0.95	0.95

NRC = **0.70** as per ASTM C 423

Sound attenuation

EN ISO 10848-2
$D_{n,f,w}$ = **39 dB** (Board, Tegular 24/90, Tegular 15/90, SL2, SL2 / Tegular 15/90, Finesse)
$D_{n,f,w}$ = **38 dB** (Vector) as per EN ISO 717-1
CAC = **39 dB** as per ASTM E 413-10

Sound reduction

EN ISO 10140-2
R_w = **22 dB** (Board, Tegular 24/90, Tegular 15/90, SL2, SL2 / Tegular 15/90, Finesse)

Fire reaction

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

Light reflectance

88%

Thermal conductivity

λ = 0.060 W/mk (Board, Tegular 24/90, Tegular 15/90, SL2, SL2 / Tegular 15/90, Finesse)
λ = 0.075 W/mk (Vector) as per EN 12667

Air permeability

PM1 (≤ 30 m³/hm²) as per DIN 18177

Humidity resistance

95% RH

Clean room

ISO 4 as per EN ISO 14644-1

Indoor air quality

A+ | E1 | IACG

Cleanability/ Sustainability

35.1-36.9% (2024)

www.blauer-engel.de/uz132

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

KNAUF CEILING Solutions

ADAGIO Alpha+

Mineral ceiling

Build on us.

ADAGIO Alpha+ offers a smooth, uniform, and durable surface with unparalleled scratch resistance and the brightest white visual available. The tile also provides a balance of both sound absorption and sound attenuation, as well as high light reflectance.

- Excellent sound absorption: 1.00 α_w.
- Excellent Light Reflectance: 88%.
- ISO 4, Indoor Air Comfort Gold and Cradle to Cradle Certified® Bronze.
- Ideal for open spaces
  (call centres, libraries, open space offices, cafeterias, etc.).

KNAUF CEILING Solutions

Characteristics	Detailed information		
Edge details	Board	Tegular 24/90	Tegular 15/90
Thickness (mm)	20	20	20
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1350 x 300 1350 x 600 1500 x 600 1800 x 600
System	Exposed demountable - System C		Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3
Weight	3.4 kg / m²		
Colour	White		
Sound absorption	EN ISO 354	α_w = **1.00** as per EN ISO 11654 - **Class A**	

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.55	0.80	1.00	0.95	1.00	1.00

NRC = **0.95** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **25 dB** as per EN ISO 717-1	CAC = **26 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **12 dB** as per EN ISO 717-1	
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1	
Light reflectance	**88%**	
Thermal conductivity	**λ = 0.040 W/mk** as per EN 12667	
Air permeability	**PM3 (≤ 100 m³/hm²)** as per DIN 18177	
Humidity resistance	**95% RH**	
Clean room	**ISO 4** as per EN ISO 14644-1	
Indoor air quality	A+ / EN 13964 E1 / IACG	
Cleanability		
Sustainability	EN ISO 14021 59.6% (2024) / BIOSOLUBLE WOOL EC 1272/2008 Annex G / M1 / cradle to cradle BRONZE / www.blauer-engel.de/uz132	

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

07/2024

KNAUF CEILING Solutions

ADAGIO dB+

Mineral ceiling

Takeda, Warsaw, Poland (© Szymon Polański)

ADAGIO dB+ offers a smooth, uniform, and durable surface with unparalleled scratch resistance and the brightest white visual available. Thanks to its exceptional air permeability (no filter effect), the surface remains whiter and brighter for an extended duration. The tile also provides a balance of both sound absorption and sound attenuation, as well as high light reflectance.

- Excellent sound attenuation: 41 dB (24mm) / 43 dB (30mm).
- Excellent light reflectance: 88%.
- ISO 4, Indoor Air Comfort Gold and Cradle to Cradle Certified® Bronze.
- Ideal for individual / private offices.

Build on us.

KNAUF CEILING Solutions

Characteristics	Detailed information		
Edge details	Board	Tegular 24/90	Tegular 15/90
Thickness (mm)	24, 30	24	24
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C		Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3
Weight	8.6 kg/m² (24mm) 10.6 kg/m² (30mm)		
Colour	White		
Sound absorption	EN ISO 354	α_w = **0.65 (H)** as per EN ISO 11654 - **Class C**	

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p 24 mm	0.40	0.45	0.60	0.80	0.85	0.85
α_p 30mm	0.35	0.40	0.65	0.85	0.90	0.95

NRC = **0.70** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **41 dB** (24mm) as per EN ISO 717-1 $D_{n,f,w}$ = **43 dB** (30mm) as per EN ISO 717-1	CAC = **43 dB** (24mm) as per ASTM E 413-10 CAC = **44 dB** (30mm) as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **24 dB** (24mm) as per EN ISO 717-1	R_w = **25 dB** (30mm) as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1	
Light reflectance	**88%**	
Thermal conductivity	**λ = 0.075 W/mk** as per EN 12667	
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177	
Humidity resistance	**95% RH**	
Clean room	**ISO 4** as per EN ISO 14644-1	
Indoor air quality	A+ / EN 13964 E1 / IACG GOLD	
Cleanability		
Sustainability	36.8-37.4% (2024) / BIOSOLUBLE WOOL / M1 / cradle to cradle BRONZE / www.blauer-engel.de/uz132	

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

KNAUF CEILING Solutions

ADAGIO HD+ 19 mm

Mineral ceiling

ADAGIO HD+ 19mm offers a smooth, uniform, and durable surface with unparalleled scratch resistance and the brightest white visual available. Thanks to its exceptional air permeability (no filter effect), the surface remains whiter and brighter for an extended duration. The tile also provides a balance of both sound absorption and sound attenuation, as well as high light reflectance.

- Excellent sound absorption (0.90 α_w) with good sound attenuation (34 dB).
- For additional acoustical options, please refer to ADAGIO HD+ 30mm and ADAGIO HD+ 35mm.
- Excellent Light Reflectance: 88%.
- ISO 4, Indoor Air Comfort Gold and Cradle to Cradle Certified® Bronze.
- Ideal for individual / private offices and corridors.

Build on us.

ADAGIO HD+ 19mm

KNAUF CEILING Solutions

Characteristics	Detailed information				
Edge details	Board	Tegular 24/90	Tegular 15/90	SL2	Finesse
Thickness (mm)	19	19	19	19	19
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1350 x 300 1350 x 600 1500 x 600 1800 x 600	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C		Exposed, demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.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,demountable - System A.2 / A.3
Weight	5.2 kg / m²				
Colour	White				
Sound absorption	EN ISO 354			α_w = **0.90** as per EN ISO 11654 - **Class A**	

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.45	0.75	0.85	0.85	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **34 dB** as per EN ISO 717-1 CAC = **35 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **17 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**88%**
Thermal conductivity	**λ = 0.060 W/mk** as per EN 12667
Air permeability	**PM2 (≤ 50 m³/hm²)** as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ / EN 13964 E1 / IACG
Cleanability	
Sustainability	EN ISO 14021 49.1% (2024) / BIOSOLUBLE WOOL EC 1272/2008 Annex Q / M1 / cradle to cradle / www.blauer-engel.de/uz132

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

07/2024

KNAUF CEILING Solutions

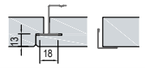
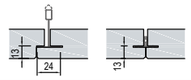
ADAGIO HD⁺ 30 mm

Mineral ceiling

ADAGIO HD⁺ 30mm offers a smooth, uniform, and durable surface with unparalleled scratch resistance and the brightest white visual available. Thanks to its exceptional air permeability (no filter effect), the surface remains whiter and brighter for an extended duration. The tile also provides a balance of both sound absorption and sound attenuation, as well as high light reflectance.

- Excellent sound absorption (0.90 α_w) with excellent sound attenuation (41 dB).
- For additional acoustical options, please refer to ADAGIO HD⁺ 19mm and ADAGIO HD⁺ 35mm.
- Excellent Light Reflectance: 88%.
- ISO 4, Indoor Air Comfort Gold and Cradle to Cradle Certified® Bronze.
- Ideal for individual / private offices, classrooms and lecture halls in the education sector.

Build on us.

Characteristics	Detailed information				
Edge details	Board	Tegular 24/90	Tegular 15/90	SL2 	Finesse 
Thickness (mm)	30	30	30	30	30
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 600 1250 x 625	600 x 600 625 x 625 675 x 675 1200 x 600 1250 x 625	600 x 600 625 x 625 675 x 675 1200 x 600 1250 x 625 1350 x 300 1350 x 600	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C		Exposed, demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.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,demountable - System A.2 / A.3
Weight	8.2 kg / m²				
Colour	White				
Sound absorption	EN ISO 354			α_w = **0.90** as per EN ISO 11654 - **Class A**	

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.50	0.75	0.80	0.95	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **41 dB** as per EN ISO 717-1 — CAC = **42 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **25 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**88%**
Thermal conductivity	**λ = 0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ / EN 13964 E1 / IACG
Cleanability	
Sustainability	EN ISO 14021 49.9% (2024) / BIOSOLUBLE WOOL EC 1272/2008 Annex G / M1 / cradle to cradle / www.blauer-engel.de/uz132

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

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KNAUF CEILING Solutions

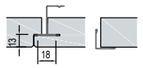
ADAGIO HD+ 35 mm

Mineral ceiling

ADAGIO HD+ 35mm offers a smooth, uniform, and durable surface with unparalleled scratch resistance and the brightest white visual available. Thanks to its exceptional air permeability (no filter effect), the surface remains whiter and brighter for an extended duration. The tile also provides a balance of both sound absorption and sound attenuation, as well as high light reflectance.

- Excellent sound absorption (0.90 α_w) with excellent sound attenuation (43 dB).
- For additional acoustical options, please refer to ADAGIO HD+ 19mm and ADAGIO HD+ 30mm.
- Excellent Light Reflectance: 88%.
- ISO 4, Indoor Air Comfort Gold and Cradle to Cradle Certified® Bronze.
- Ideal for individual / private offices, classrooms and lecture halls in the education sector.

Build on us.

Characteristics	Detailed information			
Edge details	Board	Tegular 24/90	Tegular 15/90	SL2 
Thickness (mm)	35	35	35	35
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600 1250 x 625 1350 x 300 1350 x 600	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300
System	Exposed demountable - System C		Exposed, demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable -System F.3	Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable - System I.2 Semi-concealed planks - Corridor, demountable - System F.2
Weight	9.5 kg / m²			
Colour	White			
Sound absorption	EN ISO 354		α_w = **0.90** as per EN ISO 11654 - **Class A**	

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.40	0.70	0.85	0.95	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **43 dB** as per EN ISO 717-1 — CAC = **44 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **25 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**88%**
Thermal conductivity	**λ = 0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ / EN 13964 E1 / IACG
Cleanability	
Sustainability	EN ISO 14021 49.4% (2024) / BIOSOLUBLE WOOL EC 1272/2008 Annex Q / M1 / cradle to cradle / www.blauer-engel.de/uz132

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

© McAteer Photographer

Healthcare and Hygiene

THE HEALTHCARE & HYGIENE RANGE

Under constant scrutiny and demanding the highest levels of comfort and cleanliness, healthcare settings go through continual changes to ensure the best possible environment for patients and healthcare professionals.

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

MEDIGUARD Alpha

PL Health Dept., Jan Kochanowski University of Humanities & Sciences, Kielce, © Szymon Polański

MEDIGUARD Alpha has a superior anti-microbial resistance. Suitable for healthcare applications demanding Class A sound absorption and rigorous cleaning methods, it is scrubbable, can be cleaned with steam and is both scratch resistant and water repellent.

- Water repellent
- Scratch resistant
- Limit growth of extended scope of bacteria & fungi
- Resistant to disinfectants, it can be scrubbed and cleaned with steam
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Excellent acoustics with Class A level
- ISO 3
- Excellent light reflectance (88%)
- Ideal for healthcare facilities, food industry, laboratories, etc.

Build on us.

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**
Thickness (mm)	20	20	20
Dimensions (mm)	600 x 600 1200 x 600	600 x 600	600 x 600
System	Exposed demountable - System C		
Weight	**3.3 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.95** as per EN ISO 11654 - **Class A**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.60	0.85	0.90	0.90	1.00	1.00

NRC = **0.95** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **25 dB** as per EN ISO 717-1 — CAC = **25 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **12 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.040 W/mK** as per EN 12667
Humidity resistance	**95% RH**
Clean room	**ISO 3** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ — EN 13964 E1 — IACG
Cleanability	
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Bacillus cereus, Streptococcus pneumoniae, Acinobacter baumannii, Klebsiella pneumoniae, Candida albicans, Aspergillus brasiliensis
Sustainability	EN ISO 14021 74% (2023) — BIOSOLUBLE WOOL EC 1272/2008 Annex Q

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

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MEDIGUARD Acoustic

SK UVN SNP Hospital, Ružomberok, © Jakub Joachim

MEDIGUARD Acoustic combines excellent cleanability with good levels of sound absorption. Its superior anti-microbial performance and disinfectants resistance, as well as scratch resistance and water repellency make it an ideal solution for healthcare applications.

- Water repellent
- Scratch resistant
- Limit growth of an extended scope of bacteria & fungi
- Resistant to disinfectants, it can be scrubbed and cleaned with steam
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Excellent light reflectance (88%)
- Ideal for healthcare facilities, food industry, laboratories, etc.

Build on us.

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**
Thickness (mm)	19	19	19
Dimensions (mm)	600 x 600 1200 x 600	600 x 600 1200 x 600	600 x 600 1200 x 600
System	Exposed demountable - System C		
Weight	**5.0 kg / m²**		
Colour	White		

Sound absorption

EN ISO 354 — α_w = **0.65(H)** as per EN ISO 11654 - **Class C**

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.40	0.40	0.60	0.80	0.90	0.85

NRC = **0.70** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **38 dB** as per EN ISO 717-1 — CAC = **39 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **22 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.060 W/mK** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ — E1 — IACG
Cleanability	
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Bacillus cereus, Streptococcus pneumoniae, Acinobacter baumannii, Klebsiella pneumoniae, Candida albicans, Aspergillus brasiliensis
Sustainability	EN ISO 14021 35% (2023) — BIOSOLUBLE WOOL EC 1272/2008 Annex Q

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

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KNAUF CEILING Solutions

MEDIGUARD Plain

SK UVN SNP Hospital, Ružomberok, © Jakub Joachim

MEDIGUARD Plain combines good cleanability alongside superior anti-microbial resistance, making it an ideal solution for healthcare environments.

- Water repellent
- Scratch resistant
- Limit growth of extended scope of bacteria & fungi
- Resistant to disinfectants and can be cleaned with dry, damp and wet cloth
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- ISO 4
- Excellent light reflectance (88%)
- Ideal for healthcare environments and laboratories

Build on us.

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24**	**Tegular 15**
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 1200 x 600	600 x 600	600 x 600
System	Exposed demountable - System C		
Weight	**3.6 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.20 (L)** as per EN ISO 11654 - **Class E**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.40	0.25	0.15	0.15	0.20	0.30

NRC = **0.20** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **35 dB** as per EN ISO 717-1 — CAC = **35 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **19 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.060 W/mK** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ — E1 (EN 13964) — IACG (Indoor Air Comfort Gold, certified product, curofin)
Cleanability	
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Bacillus cereus, Streptococcus pneumoniae, Acinobacter baumannii, Klebsiella pneumoniae, Candida albicans, Aspergillus brasiliensis
Sustainability	EN ISO 14021: 24% (2023) — Biosoluble wool, EC 1272/2008 Annex G

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

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KNAUF CEILING Solutions

HYGENA Aquatec

GRADED SCHOOL, Brazil, ©Alessandro Couto

HYGENA Aquatec is the ideal solution for high-humidity areas of up to 100% RH.
It offers excellent sound absorption, and its washable, which makes it the perfect solution for hygiene and healthcare environments. The surface is washable and anti-microbial.

- Limits the growth of bacteria and fungi
- Ideal solution for high humidity areas of up to 100% RH
- Excellent acoustics with Class A level
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Can be cleaned with high pressure device and resists to disinfectants
- ISO 3
- Ideal for healthcare environments, food industry, laboratories, treatment rooms, intensive care units, locker rooms or shower areas

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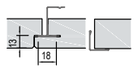
KNAUF CEILING Solutions

Characteristic	Detailed information			
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**	**Finesse** 
Thickness (mm)	19	19	19	19
Dimensions (mm)	600 x 600 610 x 610 625 x 625 1200 x 600 1220 x 610 1250 x 625	600 x 600 610 x 610 625 x 625	600 x 600 610 x 610 625 x 625	600 x 600 625 x 625
System	Exposed demountable - System C			Concealed, demountable - System A.2 / A.3
Weight	**5.2 kg / m²**			
Colour	White			
Sound absorption	EN ISO 354 — α_w = **0.90** as per EN ISO 11654 - **Class A**			

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.60	0.70	0.85	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **29 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **16 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**100% RH**
Clean room	**ISO 3** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ — E1 (EN 13964) — IACG (Indoor Air Comfort Gold, eurofins, certified product)
Cleanability / Sustainability	52% (2023) (EN ISO 14021) — Biosoluble wool (EC 1272/2008 Annex Q)
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Candida albicans

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

KNAUF CEILING Solutions

HYGENA Alpha

Build on us.

HYGENA Alpha offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption. The surface is washable and antimicrobial.

- Limits the growth bacteria and fungi
- Cleanable with dry and damp cloth
- White appearance and excellent acoustics with Class A level
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Ideal for healthcare facilities, food industry, laboratories, etc.

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**
Thickness (mm)	19	19	19
Dimensions (mm)	600 x 600 610 x 610 625 x 625 1200 x 600 1220 x 610 1250 x 625	600 x 600 610 x 610 625 x 625	600 x 600 610 x 610 625 x 625
System	Exposed demountable - System C		
Weight	**3.3 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.95** as per EN ISO 11654 - **Class A**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.50	0.80	0.90	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **14 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**87%**
Thermal conductivity	λ = **0.040 W/mK** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ — E1 — IACG
Cleanability / Sustainability	60% (2023)
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Candida albicans, Aspergillus niger

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

07/2024

KNAUF CEILING Solutions

HYGENA Acoustic 15mm

The laminated finish of HYGENA Acoustic creates a smooth, white appearance. It provides good levels of sound absorption and excellent sound attenuation. The surface is washable and anti-microbial.

- Limits the growth of bacteria and fungi
- Cleanable with dry and damp cloth
- Smooth, white appearance and good levels of acoustics
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Excellent light reflectance (87%)
- Ideal for healthcare facilities, food industry, laboratories, etc.

Build on us.

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 610 x 610 625 x 625 1200 x 600 1220 x 610 1250 x 625	600 x 600 610 x 610 625 x 625	600 x 600 610 x 610 625 x 625
System	Exposed demountable - System C		
Weight	**2.9 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.80 (H)** as per EN ISO 11654 - **Class B**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.55	0.75	0.80	0.75	0.95	1.00

NRC = **0.85** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **13 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**87%**
Thermal conductivity	λ = **0.040 W/mK** as per EN 12667
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ — E1 — IACG
Cleanability / Sustainability	48% (2023) — BIOSOLUBLE WOOL EC 1272/2008 Annex G
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Candida albicans, Aspergillus niger

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

07/2024

KNAUF CEILING Solutions

HYGENA Plain

Build on us.

HYGENA Plain offers a white, smooth surface that creates an elegant ceiling appearance and provides excellent light reflection. The surface is washable and anti-microbial.

- Limits the growth of bacteria and fungi
- Cleanable with dry and damp cloth
- White, smooth surface that provides excellent light reflection
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Ideal for healthcare environments and laboratories

KNAUF CEILING Solutions

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24**	**Tegular 15**
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 610 x 610 1200 x 600 1220 x 610	600 x 600	600 x 600
System	Exposed demountable - System C		
Weight	**3.8 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.20 (L)** as per EN ISO 11654 - **Class E**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.45	0.25	0.15	0.15	0.20	0.25

NRC = **0.20** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **34 dB** as per EN ISO 717-1 — CAC = **36 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **21 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**87%**
Thermal conductivity	λ = **0.060 W/mK** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Risk level	**Zone 4** (Very High Risk) as per NF S 90-351:2013
Microbiological Cleanliness	**M1** as per NF S 90-351:2013
Kinetics of particle decontamination	**$CP_{(0,5)}$5** as per NF S 90-351:2013
Indoor air quality	A+ / E1 (EN 13964) / IACG (Indoor Air Comfort, eurofins GOLD, Certified Product)
Cleanability / Sustainability	26% (2023) (EN ISO 14021) / BIOSOLUBLE WOOL (EC 1272/2008 Annex Q)
Anti-microbial characteristics	Tested against: Escherichia coli, Staphylococcus aureus, Candida albicans, Aspergillus niger

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile.
Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4.

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

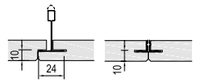
07/2024

AMF THERMATEX® Aquatec

AMF THERMATEX® Aquatec is the optimal solution for high humidity areas of up to 100% RH. It offers excellent sound absorption, and is suitable for high pressure water cleaning. Its high-quality design makes it the ideal solution for hygiene and healthcare environments

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

Build on us.

Characteristic	Detailed information			
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**	**Finesse** 
Thickness (mm)	19	19	19	19
Dimensions (mm)	600 x 600 625 x 625	600 x 600 625 x 625	600 x 600 625 x 625	600 x 600 625 x 625
System	Exposed demountable - System C			Concealed, demountable - System A.2 / A.3
Weight	**5.2 kg / m²**			
Colour	White			
Sound absorption	EN ISO 354	α_w = **0.90** as per EN ISO 11654 - **Class A**		

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p	0.60	0.70	0.85	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **29 dB** as per EN ISO 717-1 CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **16 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**100% RH**
Clean room	**ISO 3** as per EN ISO 14644-1
Indoor air quality	A+ E1 IACG
Cleanability	
Sustainability	EN ISO 14021 51.7% (2023) EPD EN 15804 BIOSOLUBLE WOOL EC 1272/2008 Annex G www.blauer-engel.de/uz132

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

07/2024

AMF THERMATEX® Thermaclean

LUCRON Seinerka Business Centre, Slovakia, © BoysPlayNice

AMF THERMATEX® Thermaclean combines excellent cleanability with good resistance to germs and fungi. It has a laminated finish with a white vinyl foil, that ensures a timeless look

- Good sound attenuation (34 dB)
- ISO 4
- Ideal for healthcare environments, laboratories, treatment rooms, intensive care units

Build on us.

Characteristic	Detailed information
Edge details	**Board**
Thickness (mm)	19
Dimensions (mm)	600 x 600
System	Exposed demountable - System C
Weight	**3.3 kg / m²**
Colour	White
Sound absorption	EN ISO 354 — α_w = **0.95** as per EN ISO 11654 - **Class A**
Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **14 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**88%**
Thermal conductivity	λ = **0.040 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ — E1
Cleanability	
Sustainability	26.2% (2023)

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.50	0.80	0.90	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

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

07/2024

KNAUF CEILING Solutions

NEWTONE

LUCRON Seinerka Business Centre, Slovakia, © BoysPlayNice

NEWTONE is a hydrated calcium silicate ceiling tile offering 100% RH performance and is suitable for use in areas subject to extremes of humidity and temperature

- High sound attenuation (37 dB)
- Ideal for spas and water parks

Build on us.

KNAUF CEILING Solutions

Characteristic	Detailed information
Edge details Additional edge details on request	**Board**
Thickness (mm)	6
Dimensions (mm)	600 x 600
System	Exposed demountable - System C
Weight	**8.0 kg / m²**
Colour	White
Sound absorption	EN ISO 354 — α_w = **0.10(L)** as per EN ISO 11654 - **Class N/A**

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.25	0.15	0.10	0.10	0.10	0.05

NRC = **0.10** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **37 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A1** as per EN 13501-1
Light reflectance	**84%**
Humidity resistance	**100% RH**
Indoor air quality	A+ / EN 13964 / IACG
Cleanability	

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.

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

07/2024

© Frederic Schweizer

THE SMOOTH WHITE ACOUSTIC RANGE

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.

© Dion de Bakker

Smooth White Acoustic

KNAUF CEILING Solutions

AMF THERMATEX® Acoustic

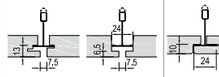
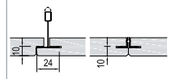
Dr. Nassau College Quintus, Assen, Netherlands © Dion de Bakker

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

- Good sound absorption (0.65 (H) α_w)
- Excellent sound attenuation (40 dB; SL2)
- High sound attenuation (38 dB; Board, Tegular 24/90, Tegular 15/90, Vector, Finesse)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

Build on us.

KNAUF CEILING Solutions

Characteristic	Detailed information					
Edge details Additional edge details on request	Board	Tegular 24/90	Tegular 15/90	SL2	Vector	Finesse
						
Thickness (mm)	19	19	19	24	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 1200 x 600	1200 x 300 1500 x 300 1800 x 300 2000 x 300 2500 x 300	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C			Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable -System I.2 Semi-concealed planks - Corridor, demountable - System F.2	Semi-concealed tiles, demountable - System C	Concealed, demountable - System A.2 / A.3
Weight	**5.0 - 8.6 kg / m²**					
Colour	White					

Sound absorption

EN ISO 354 — α_w = **0.65 (H)** as per EN ISO 11654 - **Class C**

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Board, Tegular 24/90, Tegular 15/90, Finesse, SL2	0.50	0.45	0.60	0.85	0.95	0.95
α_p Vector	0.45	0.40	0.60	0.80	0.90	1.00

NRC = **0.70** as per ASTM C 423

Sound attenuation

EN ISO 10848-2
$D_{n,f,w}$ = **38 dB** (Board, Tegular 24/90 Tegular 15/90, Vector, Finesse) as per EN ISO 717-1
$D_{n,f,w}$ = **40 dB** (SL2) as per EN ISO 717-1

CAC = **39 dB** (Board, Tegular 24/90, Tegular 15/90, Vector, Finesse) as per ASTM E 413-10

Sound reduction

EN ISO 10140-2
R_w = **22 dB** as per EN ISO 717-1

Fire reaction

Euroclass **A2-s1, d0** as per EN 13501-1
Class A as per ASTM E 84

Light reflectance

88%

Thermal conductivity

λ = **0.060 W/mk** as per EN 12667

Air permeability

PM1 (≤ 30 m³/hm²) as per DIN 18177

Humidity resistance

95% RH

Clean room

ISO 4 as per EN ISO 14644-1

Indoor air quality

A+ | E1 | IACG

Cleanability/ Sustainability

35-36.9% (2023)

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

07/2024

KNAUF CEILING Solutions

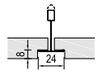
AMF THERMATEX® Alpha

Build on us.

AMF THERMATEX® Alpha offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption

- Excellent sound absorption (0.90 α_w)
- Good sound attenuation (34 dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and corridors

KNAUF CEILING Solutions

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24/90** 	**Tegular 15/90**
Thickness (mm)	19	19	19
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600
System	Exposed demountable – System C		
Weight	**3.3 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.95** as per EN ISO 11654 – **Class A**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.50	0.80	0.90	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.040 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ — E1 — IACG
Cleanability	
Sustainability	EN ISO 14021: 49.3% (2023) — EPD EN 15804 — Biosoluble wool EC 1272/2008 Annex G — Emission class for building materials M1 — cradle to cradle Bronze — www.blauer-engel.de/uz132

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

07/2024

AMF THERMATEX® Alpha Colour

MULTIPLEX Cinema Kiev, Ukraine © Sergiy Kadulin

AMF THERMATEX® Alpha Colour provides a modern appearance and is the optimal solution for spaces that require outstanding sound absorption. In addition to cream, black and silver, the acoustic range is also available in granite, steel, green marble, copper, oak, brass, sandstone and concrete Vario Design colours

- Excellent sound absorption (0.95 α_w)
- Ideal for offices, restaurants, cinemas, classrooms and learning applications

Build on us.

Characteristic	Detailed information
Edge details Additional edge details on request	Board
Thickness (mm)	19
Dimensions (mm)	600 x 600 610 x 610 625 x 625 1200 x 600 1220 x 610 1250 x 625
System	Exposed demountable - System C
Weight	**3.3 kg / m²**
Colour	Vario Design Colours: Black, Silver, Cream, Granite, Steel, Green Marble, Copper, Oak, Brass, Sand-stone, Concrete
Sound absorption	EN ISO 354 α_w = **1.00** as per EN ISO 11654 - **Class A** (Black) α_w = **0.95** as per EN ISO 11654 - **Class A** (other colours)

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Black	0.45	0.80	0.95	0.95	1.00	1.00

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Other colours	0.50	0.80	0.90	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **14 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Thermal conductivity	λ = **0.040 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Indoor air quality	A+ (EN ISO 16000), E1 (EN 13964)
Cleanability	
Sustainability	EN ISO 14021: 49.3% (2023); EPD EN 15804; Biosoluble wool EC 1272/2008 Annex Q; Emission class for building materials M1; Cradle to cradle Bronze; www.blauer-engel.de/uz132

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

07/2024

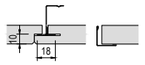
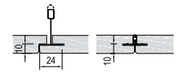
AMF THERMATEX® Alpha HD 19mm

Bühler Motoren, Germany © Rainer Taepper Architekturfotografie

AMF THERMATEX® Alpha HD 19mm offers a modern, white appearance and is the optimal solution for spaces that need a combination of excellent sound absorption and good sound attenuation

- Excellent sound absorption (0.90 α_w)
- Good sound attenuation (34 dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and corridors

Build on us.

Characteristic	Detailed information				
Edge details	**Board**	**Tegular 24/90**	**Tegular 15/90**	**SL2**	**Finesse**
					
Thickness (mm)	19	19	19	19	19
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1500 x 600 1800 x 600	600 x 600 625 x 625 675 x 675 1200 x 300 1200 x 600 1250 x 625 1350 x 300 1350 x 600 1500 x 600 1800 x 600	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C		Exposed, demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.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,demountable - System A.2 / A.3
Weight	**5.2 kg / m²**				
Colour	White				
Sound absorption	EN ISO 354	α_w = **0.90** as per EN ISO 11654 - **Class A**			
	Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
	α_p	0.50	0.70	0.80	0.90	1.00	1.00
	NRC = **0.85** as per ASTM C 423						
Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **34 dB** as per EN ISO 717-1			CAC = **35 dB** as per ASTM E 413-10			
Sound reduction	EN ISO 10140-2 R_w = **17 dB** as per EN ISO 717-1						
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1						
Light reflectance	**88%**						
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667						
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177						
Humidity resistance	**95% RH**						
Clean room	**ISO 4** as per EN ISO 14644-1						
Indoor air quality	A+	E1	IACG				
Cleanability / Sustainability			49.1% (2023)				

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

07/2024

AMF THERMATEX® Alpha HD 30mm

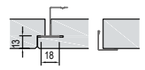
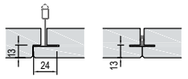
Siemens Office, Kyiv, Ukraine © Sergiy Kadulin

Build on us.

AMF THERMATEX® Alpha HD 30mm offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption and sound attenuation

- Excellent sound absorption (0.90 α_w)
- Excellent sound attenuation (40 dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

AMF THERMATEX® Alpha HD 30mm

Characteristic	Detailed information				
Edge details Additional edge details on request	**Board**	**Tegular 24/90**	**Tegular 15/90**	**SL2**	**Finesse**
					
Thickness (mm)	30	30	30	30	30
Dimensions (mm)	600 x 600 625 x 625 675 x 675 1200 x 600 1250 x 625	600 x 600 625 x 625 675 x 675 1200 x 600 1250 x 625	600 x 600 625 x 625 675 x 675 1200 x 600 1250 x 625 1350 x 300 1350 x 600	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300	600 x 600 625 x 625 1200 x 600 1250 x 625
System	Exposed demountable - System C		Exposed, demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.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,demountable - System A.2 / A.3
Weight	**8.2 kg / m²**				
Colour	White				
Sound absorption	EN ISO 354	α_w = **0.90** as per EN ISO 11654 - **Class A**			

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.55	0.70	0.85	1.00	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **40 dB** as per EN ISO 717-1 CAC = **41 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **22 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**88%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ / EN 13964 E1 / IACG
Cleanability	
Sustainability	EN ISO 14021 49.9% (2023) / EPD EN 15804 / BIOSOLUBLE WOOL EC 1272/2008 Annex Q / EMISSION CLASS M1 / cradle to cradle BRONZE / www.blauer-engel.de/uz132

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

07/2024

AMF THERMATEX® Alpha HD 35mm

Sener Office Barcelona, Spain © Victor Sajara Photography

AMF THERMATEX® Alpha HD 35mm offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption and sound attenuation

- Excellent sound absorption (0.90 α_w)
- Excellent sound attenuation (42 dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

Build on us.

AMF THERMATEX® Alpha HD 35mm

Characteristic	Detailed information			
Edge details Additional edge details on request	**Board**	**Tegular 24/90**	**Tegular 15/90**	**SL2**
Thickness (mm)	35	35	35	35
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600 1250 x 625 1350 x 300 1350 x 600	1350 x 300 1350 x 600 1500 x 300 1800 x 300 2000 x 300
System	Exposed demountable - System C		Exposed, demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable -System F.3	Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable - System I.2 Semi-concealed planks - Corridor, demountable -System F.2
Weight	**9.5 kg / m²**			
Colour	White			
Sound absorption	EN ISO 354 — α_w = **0.90** as per EN ISO 11654 - **Class A**			

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p	0.40	0.65	0.85	1.00	1.00	1.00

NRC = **0.85** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **42 dB** as per EN ISO 717-1 — CAC = **44 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **25 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**88%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ — E1 — IACG
Cleanability	
Sustainability	50.4% (2023) — EPD EN 15804 — BIOSOLUBLE WOOL EC 1272/2008 Annex G — M1 — cradle to cradle BRONZE — www.blauer-engel.de/uz132

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

07/2024

KNAUF CEILING Solutions

AMF THERMATEX® Alpha One

AMF THERMATEX® Alpha One offers a modern, white appearance and is the optimal solution for spaces that need excellent sound absorption

- Excellent sound absorption (1.00 α_w)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

Build on us.

KNAUF CEILING Solutions

Characteristic	Detailed information		
Edge details	**Board**	**Tegular 24/90**	**Taular 15/90**
Thickness (mm)	24	24	24
Dimensions (mm)	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
System	Exposed demountable - System C		
Weight	**4.0 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **1.00** as per EN ISO 11654 - **Class A**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.55	0.85	1.00	0.95	1.00	1.00

NRC = **1.00** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **29 dB** as per EN ISO 717-1
Sound reduction	EN ISO 10140-2 R_w = **17 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.040 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ (A+ A B C) — E1 (EN 13964) — IACG (Indoor Air Comfort Gold, eurofins, Certified Product)
Cleanability / Sustainability	EN ISO 14021: 50.8% (2023) — EPD EN 15804 — Biosoluble wool EC 1272/2008 Annex G — Emission Class for Building Materials M1 — Cradle to Cradle Certified Bronze — Blue Angel www.blauer-engel.de/uz132

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

07/2024

AMF THERMATEX® dB Acoustic

HR OHBP, KBC Osijek (Clinical Medical Center)

AMF THERMATEX® dB Acoustic is the ideal solution for spaces requiring excellent sound attenuation and good sound absorption. It provides a simple yet timeless design finish to any space

- Good sound absorption (0.65 (H) α_w)
- Excellent sound attenuation (24mm thickness: 41dB - 30mm thickness: 43dB)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, meeting rooms and learning applications or corridors

Build on us.

Characteristic	Detailed information		
Edge details Additional edge details on request	**Board** 	**Tegular 24** 	**Tegular 15**
Thickness (mm)	24, 30	24	24
Dimensions (mm)	600 x 600	600 x 600	600 x 600
System	Exposed demountable - System C		
Weight	**8.6 - 10.6 kg / m²**		
Colour	White		

Sound absorption

EN ISO 354 — α_w = **0.65 (H)** as per EN ISO 11654 - **Class C**

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p Board (24mm), Tegular 24, Tegular 15	0.40	0.45	0.60	0.80	0.95	0.95
α_p Board (30mm)	0.35	0.40	0.65	0.85	0.90	0.95

NRC = **0.70** as per ASTM C 423

Sound attenuation

EN ISO 10848-2
$D_{n,f,w}$ = **41 dB** (24mm) as per EN ISO 717-1 — $D_{n,f,w}$ = **43 dB** (30mm) as per EN ISO 717-1
CAC = **43 dB** (24mm) as per ASTM E 413-10

Sound reduction

EN ISO 10140-2
R_w = **24 dB** (24mm) as per EN ISO 717-1 — R_w = **25 dB** (30mm) as per EN ISO 717-1

Fire reaction

Euroclass **A2-s1, d0** as per EN 13501-1
Class A as per ASTM E 84

Light reflectance

88%

Thermal conductivity

λ = **0.075 W/mk** as per EN 12667

Air permeability

PM1 (≤ 30 m³/hm²) as per DIN 18177

Humidity resistance

95% RH

Clean room

ISO 4 as per EN ISO 14644-1

Indoor air quality

A+ — E1 — IACG

Cleanability

Sustainability

36.8-37% (2023)

www.blauer-engel.de/uz132

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

07/2024

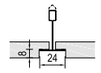
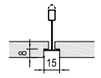
AMF THERMATEX® Thermofon

EGLO Lighting Kiev, Ukraine, © Knauf Ceiling Solutions

AMF THERMATEX® Thermofon features a smooth, white laminated finish and modern design visual. It provides high sound absorption for enhanced acoustic comfort

- High sound absorption (0.80 (H) α_w)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms and learning applications

Build on us.

Characteristic	Detailed information		
Edge details Additional edge details on request	**Board** 	**Tegular 24/90** 	**Tegular 15/90** 
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600
System	Exposed demountable – System C		
Weight	**2.9 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.80 (H)** as per EN ISO 11654 – **Class B**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.55	0.75	0.75	0.80	0.95	1.00

NRC = **0.85** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **13 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Thermal conductivity	λ = **0.040 W/mk** as per EN 12667
Humidity resistance	**95% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A+ (A+ A B C) — E1 (EN 13964) — IACG (Indoor Air Comfort eurofins GOLD Certified Product)
Cleanability	
Sustainability	47.8-48% (2023) (EN ISO 14021) — EPD (EN 15804) — Biosoluble Wool EC 1272/2008 Annex G — RTS Emission Class for Building Materials M1 — Cradle to Cradle Certified Bronze — Blauer Engel www.blauer-engel.de/uz132

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

07/2024

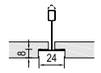
AMF TOPIQ® Efficient Pro

Berufliche Schule Anckelmannstraße Hamburg, Germany, © Anke Müllerklein

AMF TOPIQ® Efficient Pro is a very light stone wool panel with a modern, smooth surface.

- Excellent sound absorption (1.00 α_w)
- Excellent light reflectance (88%)
- ISO 4
- Ideal for offices, classrooms, learning applications and underground garages

Build on us.

Characteristic	Detailed information		
Edge details Additional edge details on request	**Board** 	**Tegular 24/90** 	**Tegular 15/90**
Thickness (mm)	20	20	20
Dimensions (mm)	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
System	Exposed demountable – System C		
Weight	**3.1 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **1.00** as per EN ISO 11654 – **Class A**		

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p	0.45	0.90	1.00	0.95	1.00	1.00

NRC = **0.95** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **25 dB** as per EN ISO 717-1 — CAC = **25 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **15 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A1** as per EN 13501-1
Light reflectance	**88%**
Humidity resistance	**100% RH**
Clean room	**ISO 4** as per EN ISO 14644-1
Indoor air quality	A, E1, IAC
Cleanability	
Sustainability	28.4% (2023); BIOSOLUBLE WOOL; M1; www.blauer-engel.de/uz132

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

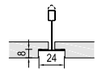
AMF TOPIQ® Prime

Großküche Zossen, Germany, © Frederic Schweizer

AMF TOPIQ® Prime is a very light stone wool panel with a modern, smooth surface.

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

Build on us.

Characteristic	Detailed information		
Edge details Additional edge details on request	**Board** 	**Tegular 24/90** 	**Tegular 15/90**
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600
System	Exposed demountable - System C		
Weight	**2.4 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.95** as per EN ISO 11654 - **Class A**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.50	0.85	0.95	0.90	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **24 dB** as per EN ISO 717-1 — CAC = **24 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **13 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A1** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**88%**
Humidity resistance	**100% RH**
Clean room	**ISO 5** as per EN ISO 14644-1
Indoor air quality	A E1 IAC
Cleanability	
Sustainability	28.4% (2023) www.blauer-engel.de/uz132

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

07/2024

KNAUF CEILING Solutions

ANTARIS

Build on us.

ANTARIS is a white, laminated mineral tile and offers Class A sound absorption.
ANTARIS provides fire protection and a hygienic ceiling solution

- Excellent sound absorption (0.90 α_w)
- High light reflectance (86%)
- ISO 5
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

KNAUF CEILING Solutions

Characteristic	Detailed information		
Edge details Additional edge details on request	**Board** 	**Tegular 24/90** 	**Tegular 15/90**
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 675 x 675 1200 x 600	600 x 600 675 x 675 1200 x 600	600 x 600 675 x 675 1200 x 600
System	Exposed demountable - System C		
Weight	**2.9 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.90** as per EN ISO 11654 - **Class A**		

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p	0.50	0.80	0.85	0.85	1.00	1.00

NRC = **0.90** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **28 dB** as per EN ISO 717-1 — CAC = **29 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **13 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**86%**
Thermal conductivity	λ = **0.040 W/mk** as per EN 12667
Humidity resistance	**95% RH**
Clean room	**ISO 5** as per EN ISO 14644-1
Indoor air quality	A+ — E1 — IACG
Cleanability	
Sustainability	EN ISO 14021: 48.1-48.2% (2023) — EPD EN 15804 — BIOSOLUBLE WOOL EC 1272/2008 Annex G — RTS EMISSION CLASS FOR BUILDING MATERIAL M1 — www.blauer-engel.de/uz132

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

07/2024

ANTARIS C

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

Build on us.

Characteristic	Detailed information		
Edge details Additional edge details on request	**Board** 	**Tegular 24** 	**Tegular 15**
Thickness (mm)	13	13	13
Dimensions (mm)	600 x 600 1200 x 600	600 x 600	600 x 600
System	Exposed demountable - System C		
Weight	**3.0 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.70** as per EN ISO 11654 - **Class C**		

Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
α_p	0.40	0.55	0.60	0.75	0.95	1.00

NRC = **0.70** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **30 dB** as per EN ISO 717-1 — CAC = **30 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **18 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**86%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Humidity resistance	**90% RH**
Clean room	**ISO 5** as per EN ISO 14644-1
Indoor air quality	A+ — E1 — IACG
Cleanability	
Sustainability	45.1% (2023) — BIOSOLUBLE WOOL — M1 — www.blauer-engel.de/uz132

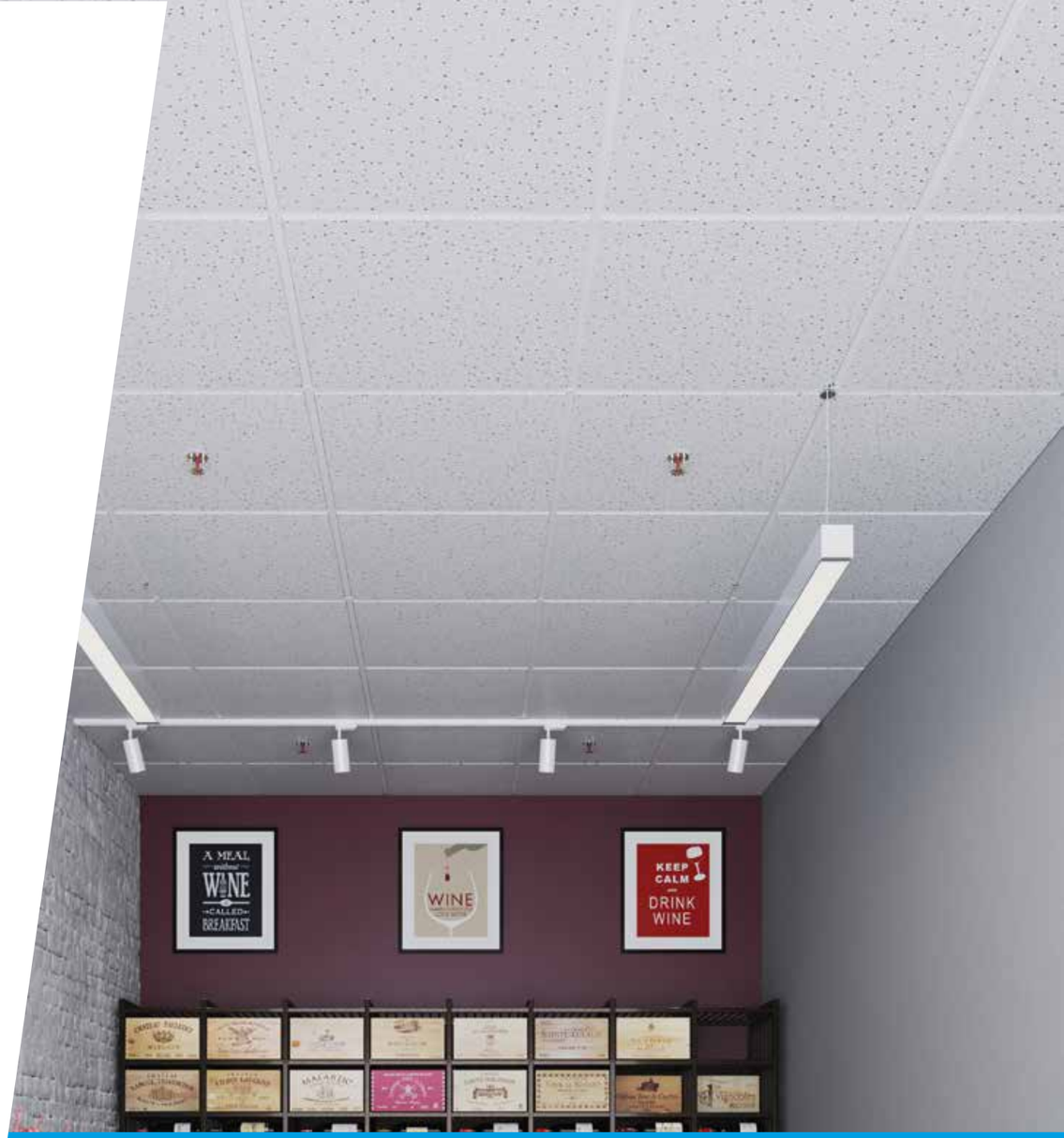
Product availability may vary from country to country. Please contact your local sales representative.
For further information and legal notice, please visit our website.

07/2024

© Nike Bourgeois

THE CLASSIC SANDED RANGE

With a finely textured surface, the sanded Classic mineral ceiling solution provides a perfect balance of light reflectance and acoustic performance to enhance comfort.



Classic Sanded

AMF THERMATEX® Feinstratos

Hedin Bil, Sweden, © Ekwall Photo

AMF THERMATEX® 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

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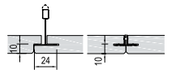
Characteristic	Detailed information					
Edge details Additional edge details on request	Board	Tegular 24	Tegular 15	Finesse	SL2	K2C2
						
Thickness (mm)	15	15	15	19	19	15
Dimensions (mm)	600 x 600 625 x 625 1200 x 600 1250 x 625 1800 x 300 2500 x 300	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x 600	600 x 600	2000 x 312,5 2500 x 312,5	2000 x 312,5 2500 x 312,5
System	Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3			Concealed, demountable - System A.2 / A.3	Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable - System I.2 Semi-concealed planks - Corridor, demountable - System F.2	Semi-concealed planks, non-demountable - System I.3 Semi-concealed planks - Bandraster, non-demountable - System I.1 Semi-concealed planks - Corridor, non-demountable - System F.1
Weight	**3.8 - 5.0 kg / m²**					
Colour	White					
Sound absorption	EN ISO 354 — α_w = **0.20** as per EN ISO 11654 - **Class E**					
	Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
	α_p	0.35	0.20	0.15	0.15	0.20	0.20
	NRC = **0.15**as per ASTM C 423					
Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **34 dB** (Board, Tegular 24, Tegular 15, K2C2) CAC = **35 dB** (Board, Tegular 24, Tegular 15, K2C2)			$D_{n,f,w}$ = **38 dB** (Finesse, SL2) as per EN ISO 717-1 CAC = **38 dB** (Finesse, SL2) as per ASTM E 413-10		
Sound reduction	EN ISO 10140-2 R_w = **21 dB** as per EN ISO 717-1					
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1					
Light reflectance	**85%**					
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667					
Humidity resistance	**95% RH**					
Indoor air quality	A+	E1	IACG			
Cleanability/ Sustainability			20.2-32.7% (2023)			

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

07/2024

AMF THERMATEX® Feinstratos Micro

British Council Kyiv, Ukraine © Sergiy Kadulin Photography

AMF THERMATEX® Feinstratos Micro features a finely textured surface and creates an even, uniform ceiling appearance with good sound absorption

- Good sound absorption (0.60 α_w)
- Good to high sound attenuation (34-38 dB)
- Good light reflectance (85%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

Build on us.

Characteristic	Detailed information					
Edge details Additional edge details on request	Board	Tegular 24	Tegular 15	Finesse	SL2	K2C2
Thickness (mm)	15, 19	15, 19	15	19	19	15
Dimensions (mm)	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 300 1800 x 300 2000 x 312,5 2500 x 300 2500 x 312,5	2000 x 312,5 2500 x 312,5
System	Exposed demountable - System C			Concealed, demountable - System A.2 / A.3	Semi-concealed planks, demountable - System I.3 Semi-concealed planks - Bandraster, demountable - System I.2 Semi-concealed planks - Corridor, demountable - System F.2	Semi-concealed planks, non-demountable - System I.3 Semi-concealed planks - Bandraster, non-demountable - System I.1 Semi-concealed planks - Corridor, non-demountable - System F.1
Weight	**3.9 - 5.0 kg / m²**					
Colour	White					
Sound absorption	EN ISO 354	α_w = **0.60** as per EN ISO 11654 - **Class C**				
	Frequency f (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**
	α_p	0.50	0.50	0.55	0.70	0.65	0.50
	NRC = **0.60** as per ASTM C 423						
Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **34 dB** Board, Tegular 24, Tegular 15, K2C2 (15mm) as per EN ISO 717-1 $D_{n,f,w}$ = **38 dB** Board, Tegular 24, Finesse, SL2 (19mm) as per EN ISO 717-1 CAC = **35 dB** (15mm) CAC = **38 dB** (19mm) as per ASTM E 413-10					
Sound reduction	EN ISO 10140-2 R_w = **21 dB** as per EN ISO 717-1					
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84					
Light reflectance	**85%**					
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667					
Humidity resistance	**95% RH**					
Indoor air quality	A+	E1	IACG			
Cleanability/ Sustainability			20.2-32.7% (2023)			

Product availability may vary from country to country. Please contact your local sales representative.
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07/2024

Classic Fissured/ Perforated

THE CLASSIC FISSURED/ PERFORATED RANGE

Choose a fissured surface from the Classic mineral range to enjoy its unique combination of superior sound absorption and sound attenuation for improved intelligibility.

KNAUF CEILING Solutions

STAR 15mm

NanoelektronikZentrumDresden, Germany, © Baldauf & Baldauf Fotografie

STAR 15mm features fine, uneven perforations with a smooth surface finish, and meets the needs for a modern, elegant design visual

- Good sound absorption (0.60 α_w)
- Good sound attenuation (34 dB)
- Excellent light reflectance (88%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

Build on us.

Characteristic	Detailed information			
Edge details Additional edge details on request	Board 	Tegular 24 	Tegular 15 	K2C2
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	600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625 1200 x600	2000 x 312,5 2500 x 312,5
System	Exposed demountable - System C Exposed - Bandraster, demountable - System I.3 Exposed - Corridor, demountable - System F.3			Semi-concealed planks, non-demountable - System I.3
Weight	**3.6 - 3.8 kg / m²**			
Colour	White			
Sound absorption	EN ISO 354 — α_w = **0.60** as per EN ISO 11654 - **Class C**			

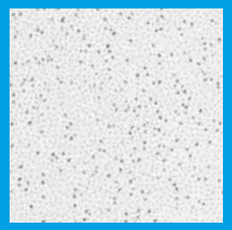
Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.45	0.50	0.55	0.70	0.65	0.50

NRC = **0.60** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **34 dB** as per EN ISO 717-1	CAC = **35 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **21 dB** as per EN ISO 717-1	
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84	
Light reflectance	**88%**	
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667	
Humidity resistance	**95% RH**	
Indoor air quality	A+	E1 — IACG
Cleanability		
Sustainability	22.5-25.4% (2023)	

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

AMF THERMATEX® Mercure



Build on us.

AMF THERMATEX® Mercure is a white ceiling panel featuring fine perforations, creating a modern, high-quality surface finish

- Good sound absorption (0.60 α_w)
- Good light reflectance (85%)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

Characteristic	Detailed information		
Edge details Additional edge details on request	Board 	Tegular 24 	Tegular 15
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 1200 x 600	600 x 600	600 x 600
System	Exposed demountable - System C		
Weight	**3.6 - 3.8 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.60** as per EN ISO 11654 - **Class C**		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.45	0.40	0.50	0.70	0.70	0.65

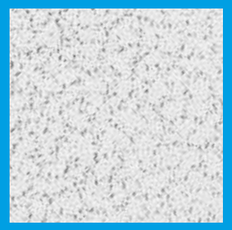
NRC = **0.60** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **32 dB** as per EN ISO 717-1 — CAC = **32 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 R_w = **21 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1 **Class A** as per ASTM E 84
Light reflectance	**85%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Humidity resistance	**95% RH**
Indoor air quality	A+ / EN 13964 E1 / IACG
Cleanability	
Sustainability	EN ISO 14021 22.5-25.4% (2023) / EPD EN 15804 / BIOSOLUBLE WOOL EC 1272/2008 Annex Q

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

07/2024

AMF THERMATEX® Feinfresko



AMF THERMATEX® Feinfresko features an uneven textured finish and offers good sound absorption for better acoustic comfort

- Good sound absorption (0.60 (H) α_w)
- High sound attenuation (32 dB)
- Ideal for retail, offices and meeting rooms, installation rooms or production areas

Build on us.

Characteristic	Detailed information		
Edge details Additional edge details on request	Board 	Tegular 24 	Tegular 15
Thickness (mm)	15	15	15
Dimensions (mm)	600 x 600 625 x625 1200 x 600 1250 x 625	600 x 600 625 x 625	625 x 625
System	Exposed demountable - System C		
Weight	**3.6 - 3.8 kg / m²**		
Colour	White		
Sound absorption	EN ISO 354 — α_w = **0.60 (H)** as per EN ISO 11654 - Class C		

Frequency f (Hz)	125	250	500	1000	2000	4000
α_p	0.45	0.40	0.50	0.70	0.80	0.75

NRC = **0.60** as per ASTM C 423

Sound attenuation	EN ISO 10848-2 $D_{n,f,w}$ = **32 dB (15 mm)** as per EN ISO 717-1 — CAC = **32 dB** as per ASTM E 413-10
Sound reduction	EN ISO 10140-2 Rw = **21 dB** as per EN ISO 717-1
Fire reaction	Euroclass **A2-s1, d0** as per EN 13501-1
Light reflectance	**83%**
Thermal conductivity	λ = **0.060 W/mk** as per EN 12667
Air permeability	**PM1** (≤ 30 m³/hm²) as per DIN 18177
Humidity resistance	**90% RH**
Indoor air quality	A+ / E1 / IACG
Cleanability	
Sustainability	22.5-25.4% (2023)

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

07/2024

© Michael Tümmers

Fire Performance

THE FIRE PERFORMANCE RANGE

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.

AMF System UNO 30

The greatest advantage of the UNO 30 system is the fire protection from above and below.

If a fire attacks from above, i.e. from the ceiling cavity, life-saving escape routes remain free of smoke and heat. If the fire attacks from below, the installations in the ceiling cavity 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.

As a design option, there is a choice between METAL or classic MINERAL design.

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Acoustic Technical Glossary

Weighted sound absorption coefficient, a_w

A single-number rating for random incidence sound absorption coefficients calculated by reference to EN ISO 11654.

With this method measured values obtained in accordance with EN ISO 354, are converted into octave bands at 250, 500, 1000, 2000 and 4000 Hz and are plotted onto a graph.

A standard reference curve is then shifted towards the measured values in steps of 0.05 until a "best fit" is obtained. The derived value of a_w will vary between 0.00 and 1.00 but is only expressed in multiples of 0.05, e.g. aw = 0.65.

Weighted suspended ceiling normalised level difference, D_{ncw}

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne sound insulation of a suspended ceiling above adjacent rooms sharing a common ceiling plenum.

It is determined in accordance with EN ISO 717-1 from measurements made in accordance with EN 20140-9.
Note: EN 20149-9 has now been withdrawn and superseded by EN ISO 10848-2 (see D_{nfw}), although D_{ncw} test results still continue to be valid.

Weighted suspended ceiling normalised flanking level difference, D_{nfw}

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne flanking sound transmission of a suspended ceiling above adjacent rooms sharing a common ceiling plenum.

It is determined in accordance with EN ISO 717-1 from measurements made in accordance with EN ISO 10848-2. This has now superseded EN 20149- 9. (see D_{ncw}).

Shape indicator

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

Weighted sound reduction index, R_w

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

Sound absorption class

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

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

Rain noise sound intensity level, L_I

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.

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'.

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.

Sound reduction

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

Definition of Technical Performance Icons

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

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

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

Dimensions
Indicates the sizes available for the product of reference.

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

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

Light Reflectance
Light reflection is the proportion of incident light that is reflected back off the product.

Weight
Weight per unit area of the product (kg/m^2)

Humidity Resistance
Maximum relative humidity conditions for installation and lifetime of ceiling.

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

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

Recycled Content
The recycled content of the product, as calculated in accordance with ISO 14021.

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

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

EPD (Environmental Product Declaration)
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.

Cradle To Cradle CERTIFIED®
Products with this icon are Cradle-to-Cradle CERTIFIED®, providing a transparent mechanism to compare the sustainability performance of products, showing that they are designed for recycling and helping to protect and to sustain our environment for future generations by keeping resources in the economy for a longer period of time.

Indoor Air Comfort Gold
Higher level "Indoor Air Comfort GOLD - Certified Product" shows additional compliance of product emissions with the critera of many of the voluntary specifications issued by most relevant ecolabels and similar specifications in the EU an requirements for sustainable building certifications. Certified products are those with the best-in-class low emissions, thus good for indoor air quality.

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).

M1
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.

Indoor Air Comfort
Higher level "Indoor Air Comfort - Certified Product" shows additional compliance of product emissions with the critera of many of the voluntary specifications issued by most relevant ecolabels and similar specifications in the EU an requirements for sustainable building certifications. Certified products are those with the best-in-class low emissions, thus good for indoor air quality.

Biosoluble Wool
The mineral wool used in our products is biosoluble and therefore not a health hazard. The two quality labels RAL and EUCEB ensure the biosolubility of the wool through regular testing.

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

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

Definition of Technical Performance Icons

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

Systems
Indicates the suspension systems compatible with the product of reference.

Colours
Custom colours available for products with this icon.

Scratch Resistance
Solutions with this icon offer a superior level of surface scratch resistance.

Product Handling & Durability
Solutions with enhanced durability for improved handling and resistance damage.

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

Thickness
Indicates the thickness for the ceiling tile of reference.

Steam Cleaning
The apparatus used should be a cleaner that generates steam under pressure (8 bar and 175°C).

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

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

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.

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

Moist Cleaning
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.

Cleaning and Disinfection
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.

High Pressure
Can be cleaned using a high pressure water spray. After cleaning, the surface should be dried.

Scrubbable
Scrubbable with water containing mild soap or diluted detergent.

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.

Build on us.

Knauf Ceiling Solutions GmbH & Co. KG

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Registration No.: HRA 7069
VAT No. pursuant to § 27a of the German VAT Act
(Umsatzsteuergesetz): DE131249009
Managing Director: Karl Wenig

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