KNAUFCEILINGSOLUTIONS.COM

YOUR **CEILING**
OUR **SOLUTIONS**

PRODUCT BROCHURE

HERADESIGN® ALPHA+

KNAUF CEILING Solutions

MORE ACOUSTICS,
MORE SUSTAINABILITY,
MORE DESIGN OPTIONS

PIU Restaurant,
Sao Paulo
© mmorenofoto

OPTIMIZED ROOM ACOUSTICS
INCREASED PERFORMANCE & EFFICIENCY

HERADESIGN® – the brand for high-quality acoustic solutions made of magnesite-bonded wood wool panels from Knauf Ceiling Solutions. The precise synergy of sound absorbing HERADESIGN® ceiling and wall areas creates pleasant room acoustics. This is becoming more and more important in offices and educational facilities, healthcare institutions and all buildings with high noise levels and visitor frequency. Rooms with optimally balanced acoustic properties enhance the well-being and boost the ability to perform and concentrate.

// Perfect – when a system makes effective sound absorption, true sustainability and exciting design options even better: HERADESIGN® Alpha+

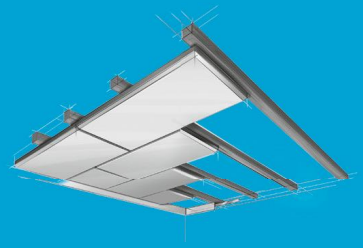
HIGHLY ABSORBENT
ECOLOGICAL COMPOSITE CONSTRUCTION

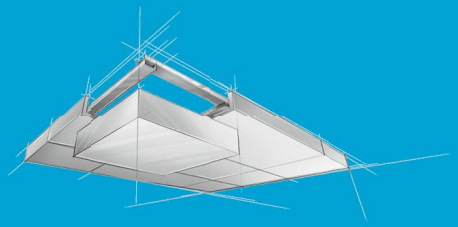
HERADESIGN® Alpha+ is the new product line within the successful range of wood wool acoustic panels from Knauf Ceiling Solutions. In addition to the existing product lines, the fleece-laminated HERADESIGN® Alpha+ offers the proverbial plus in acoustic efficiency, effectiveness, ecology and design options.
HERADESIGN® Alpha+ stands for highly absorbing performance properties, made possible by an innovative composite construction of wood wool acoustic panels and reverse-side laminated acoustic fleece. Thus, with HERADESIGN® Alpha+, architects and planners have at their disposal an alternative that is increasingly favored by the market and consequential in terms of ecological building compared to other composite constructions and replaces the classic acoustic pads.

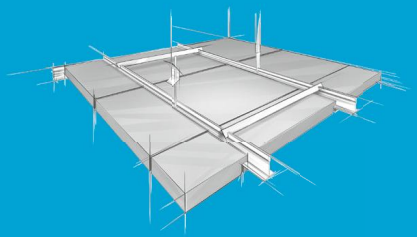
HERADESIGN® Alpha+
Wood wool acoustic panels with reverse-side laminated acoustic fleece

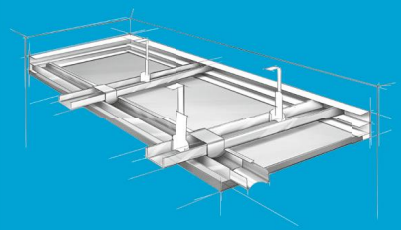
PRODUCT ADVANTAGES AND BENEFITS WITH HERADESIGN® ALPHA+

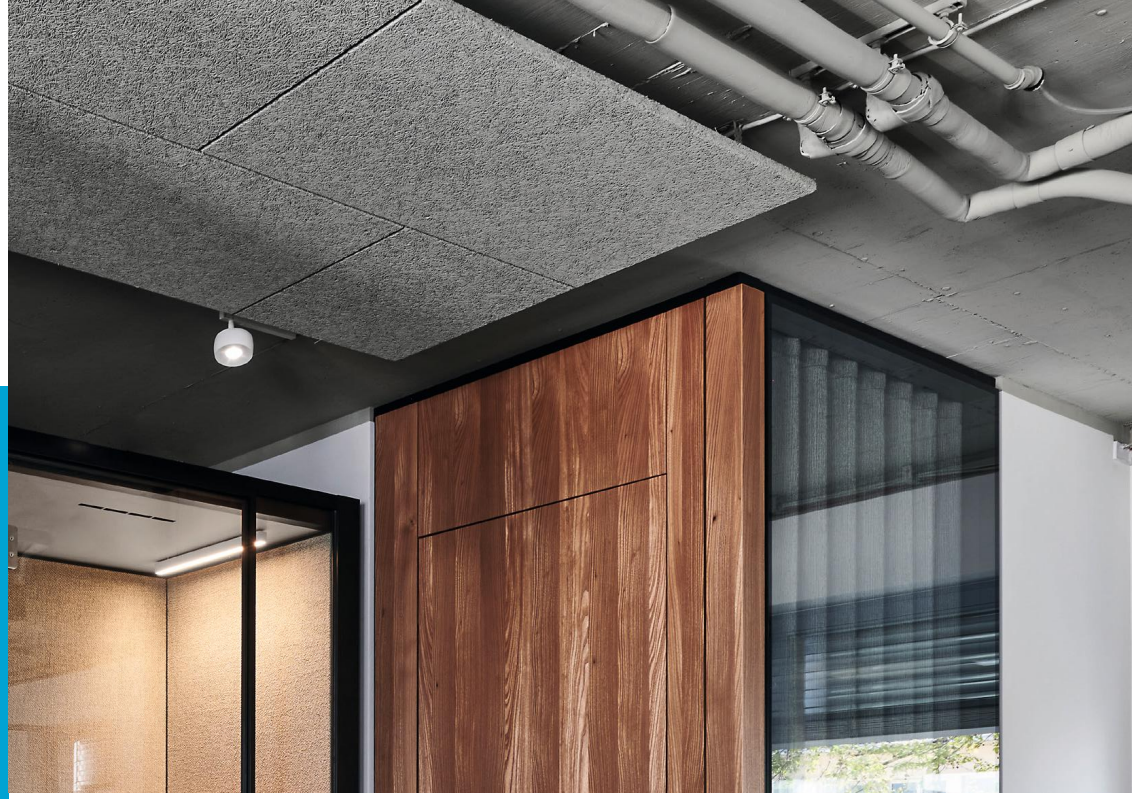
- The change from a two-layer product with a mineral wool layer to a homogeneous product with an acoustic fleece layer achieves and ensures **at least double the loading volume** when transporting the panels by truck or container, resulting in a **significant reduction of CO_2 emissions**.
- The fleece for lamination of wood wool, corresponds with **customers' ever increasing requirements and demands for consistent use of natural materials** in composite construction.
- The fleece lamination **improves the panel's acoustic properties** without change to the existing, standard thickness, 15mm, 25mm and 35mm.
- The panel's new design construction facilitates **the choice among all edge finishes and systems.**
- **Ball impact resistant installation** can be guaranteed in accor dance with DIN 18 032 / part 3 resp. class 1A as to EN 13964 attachment D.
- **Alpha+ makes possible constructions with the highest absorption,** class A, without the use of inorganic fiber insulation materials.
- The necessity **for foil packaging of mineral wool for trickle protection is not required.**
- **The wood wool acoustic panels can be installed in one go** which saves time and cost. The material can be installed in a lengthwise as well as a crosswise traversing direction.
- Cavity remains **free of loose acoustic layers**, therefore installations are freely accessible.
- **The flexible design structure offers advantages during disassembly.**
- **The flexible design simplifies the disposal or recycling.**











EXTREME DURABLE FINISH RETAINS CHARACTERISTICS

With the two classic surface options "Superfine" and "Fine", HERADESIGN® Alpha+ fulfills almost all requirements in terms of design for walls and ceilings.

HERADESIGN® Superfine Alpha+
HERADESIGN® Superfine A2 Alpha+
Fiber width approx. 1mm,
Premium surface structure

HERADESIGN® Fine Alpha+
HERADESIGN® Fine A2 Alpha+
Fibre width approx. 2mm,
Extremely durable surface structure

The entire HERADESIGN® Alpha+ range has been developed by Knauf Ceiling Solutions for special visual effects and individual areas of applications.

Hotel CROZ
© Domagoj Kunić

CONSEQUENTIAL RECYCLING – LESS CO_2 EMISSIONS

Just like the entire Knauf Ceiling Solutions HERADESIGN® range, HERADESIGN® Alpha+ stands for consistent sustainability.

By its composition of natural materials, the high-quality acoustic solution made from wood wool contributes effectively to climate protection and to creating ecological livable spaces.
When it comes to building organically this combination is absolutely safe. In a structure HERADESIGN® Alpha+ acoustic panels have a lifespan of several decades, thereafter, they are easily recycled.
As far back as 2017, Knauf Ceiling Solutions started to intensify the use of a zero-waste-production-process. And consequently, started using a closed-loop production method. As this applies to HERADESIGN® wood wool panels, this groundbreaking process recovers the binding agent material in the panels at the state-of-the-art Ferndorf site in Austria.
Since then, reclaimed production residues from panel manufacturing have been recycled back into the production process. This in-plant recycling process also works with the new HERADESIGN® Alpha+ fleece lamination without any problem.
Thus, Knauf Ceiling Solutions makes a significant contribution to climate protection. The possible doubling of the loading volume with HERADESIGN® Alpha+ and the resulting elimination of numerous material transports avoid thousands of tons of CO_2 emissions.

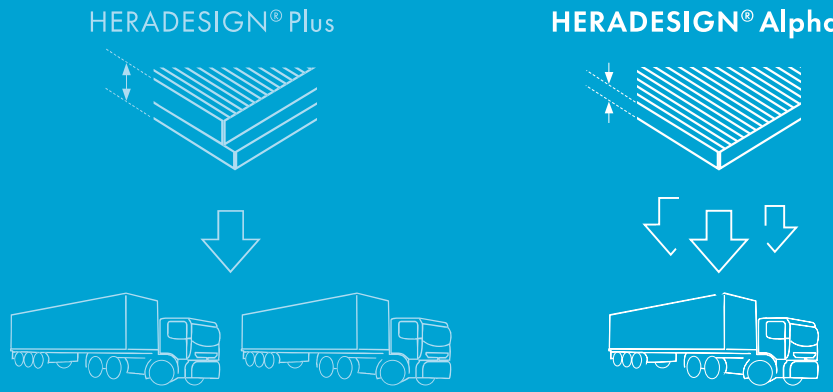
COLORS ARE TRENDY

The natural characteristic texture of wood wool is perfectly suited as a surface for creative color design. A nearly endless range of colors is available. Almost any shade of color from the established color systems like RAL or NCS can be chosen. White, similar to RAL 9010 and beige (natural tone 13) are standard. In addition pastel colors, solid colors, metallic and special colors are also possible.

Furthermore, beside the potential color variants mentioned above, there is the option to choose from our **color trends**. These contain eight trendy shades, each based on and inspired by nature.

OUR CONTRIBUTION TO CO_2 REDUCTION

The new **HERADESIGN Alpha+** product line **reduces the transport volume via truck and/or container ship by half** through its modern and thinner acoustic fleece lamination. In comparison to the two-layered products with mineral wool lamination, it obviously contributes to **significant CO_2 savings as a result**.



HERADESIGN® Superfine Alpha+

Homogeneous wood wool panels with acoustic fleece, higher sound absorption with the same panel thickness.

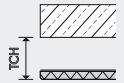
- Fewer obstructions in the ceiling cavity, which facilitates installation, maintenance, disassembly and recycling easier
- The sound absorption performance is increased compared to a standard panel up to class A without increasing the thickness
- Available in 15, 25 and 35mm thicknesses and a wide range of edge details.

HERADESIGN® Superfine Alpha+

System	A2.1, A2.2	B2.1, B2.2			C2.1	S2.1
Edge details * 	VK-09	GK	AK-02/5	AK-03	SK-04	SY-02
	VK-10	AK-00	AK-02/10		SK-05	
*not all combinations edge/board thickness are available	VK-10/5	AK-01	AK-02/20		SK-06	
Dimensions (mm) 	600 x 600, 625 x 625, 1200 x 600, 1250 x 625, additional sizes on request.					
Thickness (mm) 	15, 25, 35					
Weight (kg/m²) 	7,8 (15mm), 12,8 (25mm), 16,5 (35mm)					

Sound absorption 

Thickness (mm)	TCH (mm)	Frequencies (Hz), α_s 125	250	500	1000	2000	4000	Entire range NRC	α_w	Class
15	45	0,10	0,25	0,60	0,93	0,87	0,89	0,65	0,55 (MH)	D
15	100	0,25	0,60	0,80	0,85	0,80	0,85	0,75	0,80	B
15	200	0,45	0,80	0,80	0,75	0,85	0,90	0,80	0,80	B
25	25	0,05	0,15	0,35	0,65	0,90	0,75	0,55	0,40 (MH)	D
25	55	0,10	0,30	0,70	1,00	0,90	0,95	0,75	0,60 (MH)	C
25	200	0,45	0,75	0,90	0,85	0,95	0,95	0,85	0,90	A
35	35	0,10	0,20	0,50	0,90	0,75	0,85	0,60	0,50 (MH)	D
35	65	0,15	0,40	0,85	0,95	0,95	0,90	0,80	0,70 (MH)	C
35	200	0,45	0,85	0,90	0,90	0,90	0,90	0,90	0,90	A



Ball impact safety 	**Ball impact resistant according to DIN 18 032 /part 3 or class 1A according to EN 13964 annex D, Ball impact resistant for panel thicknesses ≥ 25mm** • **Ceiling panelling** system B2.1, B2.2, C2.1 • **Wall panelling** system B2.1, B2.2, S2.1
Reaction to Fire 	Euroclass B-s1,d0
Thermal conductivity 	λ = 0.09 W/mK according to EN 12667
Humidity resistance 	Suitable for rooms with a constant humidity of up to 90%. For applications where there is a constant relative air humidity in excess of 80%, expert advice for building physics is recommended.
Application areas	A decorative and acoustically effective suspended ceiling and wall panel for use in interior spaces as well as roofed outdoor areas that are not directly exposed to environmental influences such as rain or pollutants.
Installation	The installation of HERADESIGN® acoustic panels should take place during the last phase of the job, and in temperature and humidity controlled conditions. All building activities which create dust must be completed before the start of installation. Store the panels flat and protect against moisture and dirt. The packaging does not protect the products against rain. HERADESIGN® products should be installed in strict accordance with Knauf Ceiling Solutions installation and storage guidelines.
Designation code	WW-EN 13168-L4-W2-T2-S2-P2-Cl3
Special information	• Manufacturing tolerances in nominal dimensions: L4, W2, T2: ± 1mm, for lengths > 1250mm L4: ± 2mm • Maximum changes in dimension in standard climate 23° C/50 % relative humidity: ±1 ‰
Cleanability	

Colours 

Standard colours

White
Similar to RAL 9010

Beige
Natural tone 13

VD Vario Design colours

• Other colours from popular RAL and NCS colour systems are available.
• Deviations in colour and visual appearance may occur due to the rough fibre and panel surface.

Sustainability

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

HERADESIGN®
Superfine A2 Alpha+

Homogeneous wood wool panels with acoustic fleece, higher sound absorption with the same panel thickness.

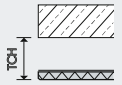
- Fire behavior according to DIN-EN 13501-1: A2-s1, d0
- Excellent acoustic effect
- No interference / blockage during installation, maintenance and dismantling due to additional requirements
- Building biology recommended

HERADESIGN® Superfine A2 Alpha+

System	A2.1, A2.2	B2.1, B2.2			C2.1	S2.1
Edge details * *not all combinations edge/board thickness are available	VK-09	GK	AK-02/5	AK-03	SK-04	SY-02
		AK-00	AK-02/10		SK-05	
		AK-01	AK-02/20		SK-06	
Dimensions (mm)	600 x 600, 625 x 625, 1200 x 600, 1250 x 625, additional sizes on request.					
Thickness (mm)	15, 25					
Weight (kg/m²)	12.0 (15mm), 18.0 (25mm)					

Sound absorption

Thickness (mm)	TCH (mm)	Frequencies (Hz), α_s 125	250	500	1000	2000	4000	Entire range NRC	α_w	Class
15	45	0,10	0,25	0,60	0,90	0,80	0,80	0,65	0,55 (MH)	D
15	200	0,45	0,70	0,75	0,70	0,75	0,80	0,70	0,75	C
25	55	0,10	0,40	0,80	0,90	0,75	0,80	0,70	0,70	C
25	200	0,45	0,75	0,75	0,75	0,80	0,80	0,80	0,80	B



Ball impact safety	**Ball impact resistant according to DIN 18 032 /part 3 or class 1A according to EN 13964 annex D, Ball impact resistant for panel thicknesses ≥ 25mm** • **Ceiling panelling** system B2.1, B2.2, C2.1 • **Wall panelling** system B2.1, B2.2, S2.1
Reaction to Fire	Euroclass A2-s1,d0
Thermal conductivity	λ = 0.10 W/mK according to EN 12667
Humidity resistance	Suitable for rooms with a constant humidity of up to 90%.
Application areas	A decorative and acoustically effective suspended ceiling and wall panel for use in interior spaces as well as roofed outdoor areas that are not directly exposed to environmental influences such as rain or pollutants.
Installation	The installation of HERADESIGN® acoustic panels should take place during the last phase of the job, and in temperature and humidity controlled conditions. All building activities which create dust must be completed before the start of installation. Store the panels flat and protect against moisture and dirt. The packaging does not protect the products against rain. HERADESIGN® products should be installed in strict accordance with Knauf Ceiling Solutions installation and storage guidelines.
Designation code	WW-EN 13168-L4-W2-T2-S2-P2-Cl3
Special information	• Manufacturing tolerances in nominal dimensions: L4, W2, T2: ± 1mm, for lengths > 1250mm L4: ± 2mm • Maximum changes in dimension in standard climate 23° C/50 % relative humidity: ±1 ‰
Cleanability	

Colours

Standard colours

White — Similar to RAL 9010

Beige — Natural tone 13

VD Vario Design colours

Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete

- Other colours from popular RAL and NCS colour systems are available.
- Deviations in colour and visual appearance may occur due to the rough fibre and panel surface.

Sustainability

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

HERADESIGN® Fine Alpha+

Homogeneous wood wool panel with acoustic fleece and higher sound absorption with the same panel thickness.

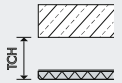
- Fewer obstructions in the ceiling cavity, which facilitates installation, maintenance, disassembly and recycling easier
- The sound absorption performance is increased compared to a standard panel without increasing the thickness
- Available in 15, 25 and 35mm thicknesses and a variety of edge details of edge details

HERADESIGN® Fine Alpha+

System	A2.1, A2.2	B2.1, B2.2			C2.1	S2.1
Edge details * *not all combinations edge/board thickness are available	VK-09	GK	AK-02/5	AK-03	SK-04	SY-02
	VK-10	AK-00	AK-02/10		SK-05	
	VK-10/5	AK-01	AK-02/20		SK-06	
Dimensions (mm)	600 x 600, 625 x 625, 1200 x 600, 1250 x 625, additional sizes on request.					
Thickness (mm)	15, 25, 35					
Weight (kg/m²)	8,2 (15mm), 13,3 (25mm), 17,5 (35mm)					

Sound absorption

Thickness (mm)	TCH (mm)	Frequencies (Hz), α_p 125	250	500	1000	2000	4000	Entire range NRC	α_w	Class
15	45	0,10	0,25	0,60	0,85	0,70	0,80	0,60	0,55 (MH)	D
15	100	0,25	0,60	0,80	0,75	0,65	0,80	0,70	0,75	C
15	200	0,45	0,80	0,75	0,65	0,70	0,80	0,70	0,70 (L)	C
25	25	0,05	0,15	0,30	0,75	0,80	0,70	0,50	0,35 (MH)	D
25	55	0,10	0,30	0,75	0,90	0,75	0,80	0,70	0,60 (MH)	C
25	200	0,50	0,75	0,80	0,70	0,80	0,80	0,75	0,80	B
35	35	0,10	0,25	0,55	0,95	0,65	0,85	0,60	0,55 (MH)	D
35	65	0,15	0,45	0,90	0,80	0,80	0,80	0,75	0,75	C
35	200	0,45	0,80	0,80	0,80	0,85	0,85	0,80	0,85	B



Ball impact safety	**Ball impact resistant according to DIN 18 032 /part 3 or class 1A according to EN 13964 annex D, Ball impact resistant for panel thicknesses ≥ 25mm** • **Ceiling panelling** system B2.1, B2.2, C2.1 • **Wall panelling** system B2.1, B2.2, S2.1
Reaction to Fire	Euroclass B-s1,d0
Thermal conductivity	λ = 0.09 W/mK according to EN 12667
Humidity resistance	Suitable for rooms with a constant humidity of up to 90%. For applications where there is a constant relative air humidity in excess of 80%, expert advice for building physics is recommended.
Application areas	A decorative and acoustically effective suspended ceiling and wall panel for use in interior spaces as well as roofed outdoor areas that are not directly exposed to environmental influences such as rain or pollutants.
Installation	The installation of HERADESIGN® acoustic panels should take place during the last phase of the job, and in temperature and humidity controlled conditions. All building activities which create dust must be completed before the start of installation. Store the panels flat and protect against moisture and dirt. The packaging does not protect the products against rain. HERADESIGN® products should be installed in strict accordance with Knauf Ceiling Solutions installation and storage guidelines.
Designation code	WW-EN 13168-L4-W2-T2-S2-P2-Cl3
Special information	• Manufacturing tolerances in nominal dimensions: L4, W2, T2: ± 1mm, for lengths > 1250mm L4: ± 2mm • Maximum changes in dimension in standard climate 23° C/50 % relative humidity: ±1 ‰
Cleanability	

Colours

Standard colours

White — Similar to RAL 9010

Beige — Natural tone 13

Vario Design colours

Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete

- Other colours from popular RAL and NCS colour systems are available.
- Deviations in colour and visual appearance may occur due to the rough fibre and panel surface.

Sustainability

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

HERADESIGN® Fine A2 Alpha+

Homogeneous wood wool panels with acoustic fleece, higher sound absorption with the same panel thickness.

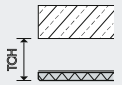
- Fire behavior according to DIN-EN 13501-1: A2-s1, d0
- Excellent acoustic effect
- No interference / blockage during installation, maintenance and dismantling due to additional requirements
- Building biology recommended

HERADESIGN® Fine A2 Alpha+

System	A2.1, A2.2 / B2.1, B2.2 / C2.1 / S2.1
Edge details * *not all combinations edge/board thickness are available	A2.1, A2.2: VK-09 B2.1, B2.2: GK, AK-02/5, AK-03, AK-00, AK-02/10, AK-01, AK-02/20 C2.1: SK-04, SK-05, SK-06 S2.1: SY-02
Dimensions (mm)	600 x 600, 625 x 625, 1200 x 600, 1250 x 625, additional sizes on request.
Thickness (mm)	15, 25
Weight (kg/m²)	13.0 (15mm), 19.0 (25mm)

Sound absorption

Thickness (mm)	TCH (mm)	Frequencies (Hz), α_p 125	250	500	1000	2000	4000	Entire range NRC	α_w	Class
15	45	0,10	0,30	0,65	0,75	0,60	0,70	0,60	0,60	C
15	200	0,45	0,65	0,65	0,55	0,60	0,70	0,60	0,60(L)	C
25	55	0,10	0,35	0,75	0,85	0,70	0,80	0,65	0,65 (H)	C
25	200	0,45	0,75	0,75	0,65	0,75	0,80	0,70	0,75	C



Ball impact safety	**Ball impact resistant according to DIN 18 032 / part 3 or class 1A according to EN 13964 annex D, Ball impact resistant for panel thicknesses ≥ 25mm** • **Ceiling panelling** system B2.1, B2.2, C2.1 • **Wall panelling** system B2.1, B2.2, S2.1
Reaction to Fire	Euroclass A2-s1,d0
Thermal conductivity	λ = 0.10 W/mK according to EN 12667
Humidity resistance	Suitable for rooms with a constant humidity of up to 90%.
Application areas	A decorative and acoustically effective suspended ceiling and wall panel for use in interior spaces as well as roofed outdoor areas that are not directly exposed to environmental influences such as rain or pollutants.
Installation	The installation of HERADESIGN® acoustic panels should take place during the last phase of the job, and in temperature and humidity controlled conditions. All building activities which create dust must be completed before the start of installation. Store the panels flat and protect against moisture and dirt. The packaging does not protect the products against rain. HERADESIGN® products should be installed in strict accordance with Knauf Ceiling Solutions installation and storage guidelines.
Designation code	WW-EN 13168-L4-W2-T2-S2-P2-Cl3
Special information	• Manufacturing tolerances in nominal dimensions: L4, W2, T2: ± 1mm, for lengths > 1250mm L4: ± 2mm • Maximum changes in dimension in standard climate 23° C/50 % relative humidity: ±1 ‰
Cleanability	

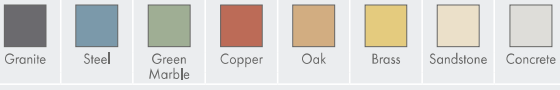
Colours

Standard colours

White
Similar to RAL 9010

Beige
Natural tone 13

VD Vario Design colours



Granite, Steel, Green Marble, Copper, Oak, Brass, Sandstone, Concrete

- Other colours from popular RAL and NCS colour systems are available.
- Deviations in colour and visual appearance may occur due to the rough fibre and panel surface.

Sustainability

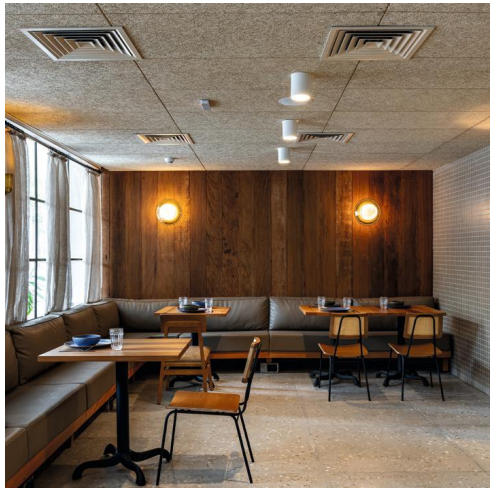
Products may vary from country to country. Please contact your local sales representative.
For further information and legal notice, please visit our website.

top & at the far right: **Hotel CROZ** © *Domagoj Kunić*

LIVELY
INSPIRING

HIGH-END SOPHISTICATED

Combine, Düsseldorf
© Joachim Grothus



Fattoria Ráscal, São Paulo *© Fran Parente*

Combine, Düsseldorf
© Joachim Grothus

YOUR **CEILING**
OUR **SOLUTIONS**

EN - 07/2023
Cover page image
Hotel CROZ
© Domagoj Kunić

Knauf Ceilings Solutions GmbH & Co. KG

Elsenthal 15,
94481 Grafenau, Germany
Phone: +49 8552 422-0
Fax: +49 9323 318-881-856
www.knaufceilingsolutions.com
E-Mail: info.kcs@knauf.com

Registered court: Passau district court,
Registration No.: HRB 1023
VAT No. pursuant to § 27a of the German VAT Act
(Umsatzsteuergesetz): DE131249009
Managing Director:
Karl Wenig