



Your acoustic solution with a system



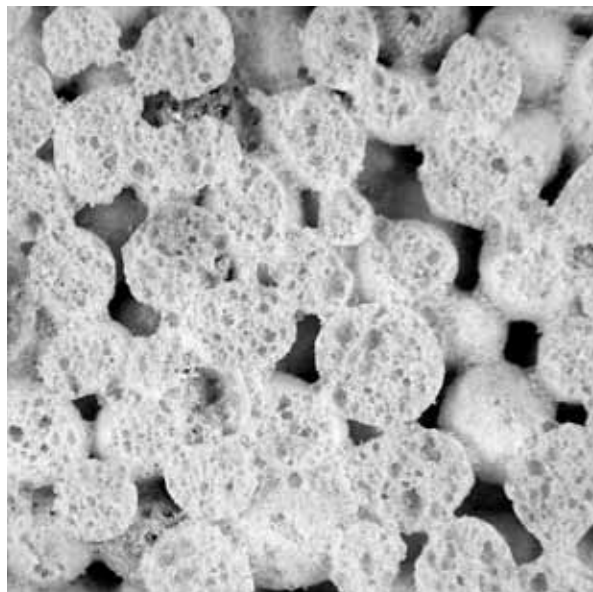
ACOUSTIC PANELS MADE OF EXPANDED GLASS GRANULATE ...

... are excellently suitable for indoor and outdoor use.

pinta phonestop E appreciably reduces noise in rooms and buildings. The novel acoustic system is based on expanded glass granulate, which is obtained from recycled glass. Developed by the Fraunhofer Institute for Building Physics, this material reduces reverberation time, is non-combustible in compliance with DIN 4102 Part 4, is purely mineral, insensitive to moisture, fiber-free, chemically resistant and can be painted at the factory.

Thanks to its product characteristics, pinta phonestop E can be used to acoustic effect in indoor and unexposed outdoor areas of office buildings, schools, staircases, firing ranges and machine or industrial halls, for example.

For installation, pinta phonestop E is fitted in a commercial available 24 mm T-grid system, the panels can be trimmed with saws used for cutting porous concrete and commercially available drill bits are used for cutting out circular holes. When installing lamps, fire detectors, etc., make sure that the weight of installed components is carried by the substructure and not by the acoustic panel.



Product advantages

- Suitable for reducing reverberation in new buildings and also for later renovation
- Fire rating A1 (non-combustible) to DIN 4102 Part 4
- High absorption
- Insensitive to moisture
- Fiber-free and stable noise absorber
- Can be fitted in all commercially available 24 mm T-grid systems
- Paint finish at the factory possible

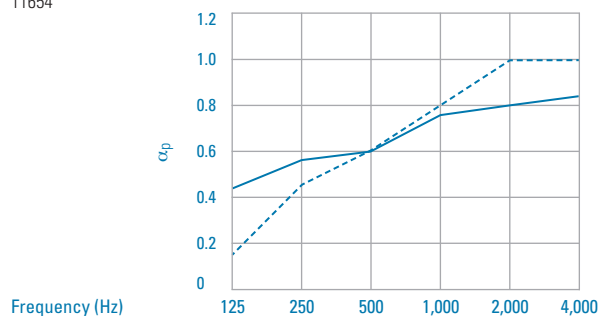
Product data: phonestop E

Characteristic	DIN	Value
Base material*		Expanded glass granulate without binding agent
Color**		gray
Bulk density	EN ISO 845	270 kg/m ³ ± 10 %
Compressive strength	DIN 1164	1.2 N/mm ² ± 10 %
Bending tensile strength	DIN 1164	0.5 N/mm ² ± 10 %
Modulus of elasticity (static)	DIN 1048-5	760 ± 80 N/mm ²
Modulus of elasticity (dynamic)	DIN 1048-5	1,020 ± 50 N/mm ²
Thermal conductivity λ	DIN 52612	$\lambda_{0,0,20}$ 0.08 W/mK
Fire rating	DIN 4102 Part 4	A1
Length-specific flow resistance	DIN EN 29053	10 to 20 kPa s/m ⁴

* Awarded the Blue Angel

** Color fluctuations possible

Sound absorption coefficient α_p , pinta phonestop E, in accordance with DIN EN ISO 11654



t = 25 mm, 300 mm ceiling cavity with all-round frame

α_p	0.45	0.55	0.60	0.75	0.80	0.85
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t = 25 mm, 300 mm ceiling cavity as ceiling cloud

α_p	0.15	0.45	0.60	0.80	1.00	1.00
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Color

- gray
- Please inquire about other colors.

Axis grid

- 625 x 625 mm
- 600 x 600 mm

Thickness

- 25 mm

See the technical data sheet for further information.



pintaacoustic



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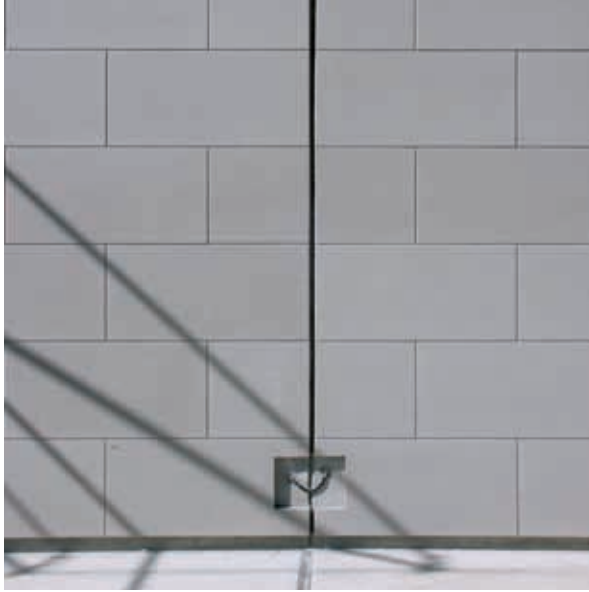
WITH ACOUSTIC PANELS MADE OF EXPANDED GLASS GRANULATE ...

... set design accents indoors and outdoors.

pinta phonestop V is acoustically highly effective and can be used for high acoustic requirements because no rearward air space is required. This novel acoustic system is based on expanded glass granulate made out of recycled glass. Developed by the Fraunhofer Institute for Building Physics, this material reduces reverberation time, is non-combustible in compliance with DIN 4102 Part 4, is purely mineral, insensitive to moisture, fiber-free, chemically resistant and can be painted on site.

pinta phonestop V acoustic panels can be used on all load bearing substructures on indoor and outdoor walls and ceilings and are resistant to ball impact. Thanks to a free choice of color design, color plastering is also possible, and visually and esthetically individual designs can be realized.

The acoustic panels are to be bonded without a substructure or cavities. The panels can be cut to size and trimmed with saws used for cutting porous concrete and commercially available drill bits are used for cutting out circular holes. Finally, the entire surface must be impregnated if they are installed outdoors and are subject to weather influences.



Product advantages

- _ Fire rating A1 (non-combustible, DIN 4102 Part 4)
- _ High absorption
- _ Insensitive to moisture, suitable for indoors and outdoors
- _ Absorber can be stressed mechanically
- _ Suitable for use in new buildings and renovation work
- _ Bonded without substructure and cavity
- _ Paint can be spray-applied on site
- _ Suitable for wall and ceiling surfaces
- _ Bonding on all load bearing substructures possible
- _ Good durability and mechanical properties
- _ Resistant to ball impact (test certificate No. S 2.3/06-395/1)

Color

- _ gray
- _ On-site painting possible.

Dimensions

- _ 625 x 625 mm
- _ 1,250 x 625 mm

Thickness

- _ 50 mm

Product data: phonestop V

Characteristic	DIN	Value
Base material*		Expanded glass granulate without binding agent
Color**		gray
Bulk density	EN ISO 845	270 kg/m ³ ± 10 %
Compressive strength	DIN 1164	1.2 N/mm ² ± 10 %
Bending tensile strength	DIN 1164	0.5 N/mm ² ± 10 %
Modulus of elasticity (static)	DIN 1048-5	760 ± 80 N/mm ²
Modulus of elasticity (dynamic)	DIN 1048-5	1.020 ± 50 N/mm ²
Thermal conductivity λ	DIN 52612	$\lambda_{0,02}$ 0.08 W/mK
Fire rating	DIN 4102 Part 4	A1
Length-specific flow resistance	DIN EN 29053	10 to 20 kPa s/m ⁴
Steam diffusion resistance	DIN 52615	25
Alternating frost and dew stressing	DIN 12041	0.25 loss in M %
Mass per unit area for d = 50 mm		approx. 13.5 kg/m ²
Sound absorption (bonded or painted)	EN ISO 1165-4	NRC 0.96 (ASTM C423) α_w 1.0 Class A

* Awarded the Blue Angel
** Color fluctuations possible

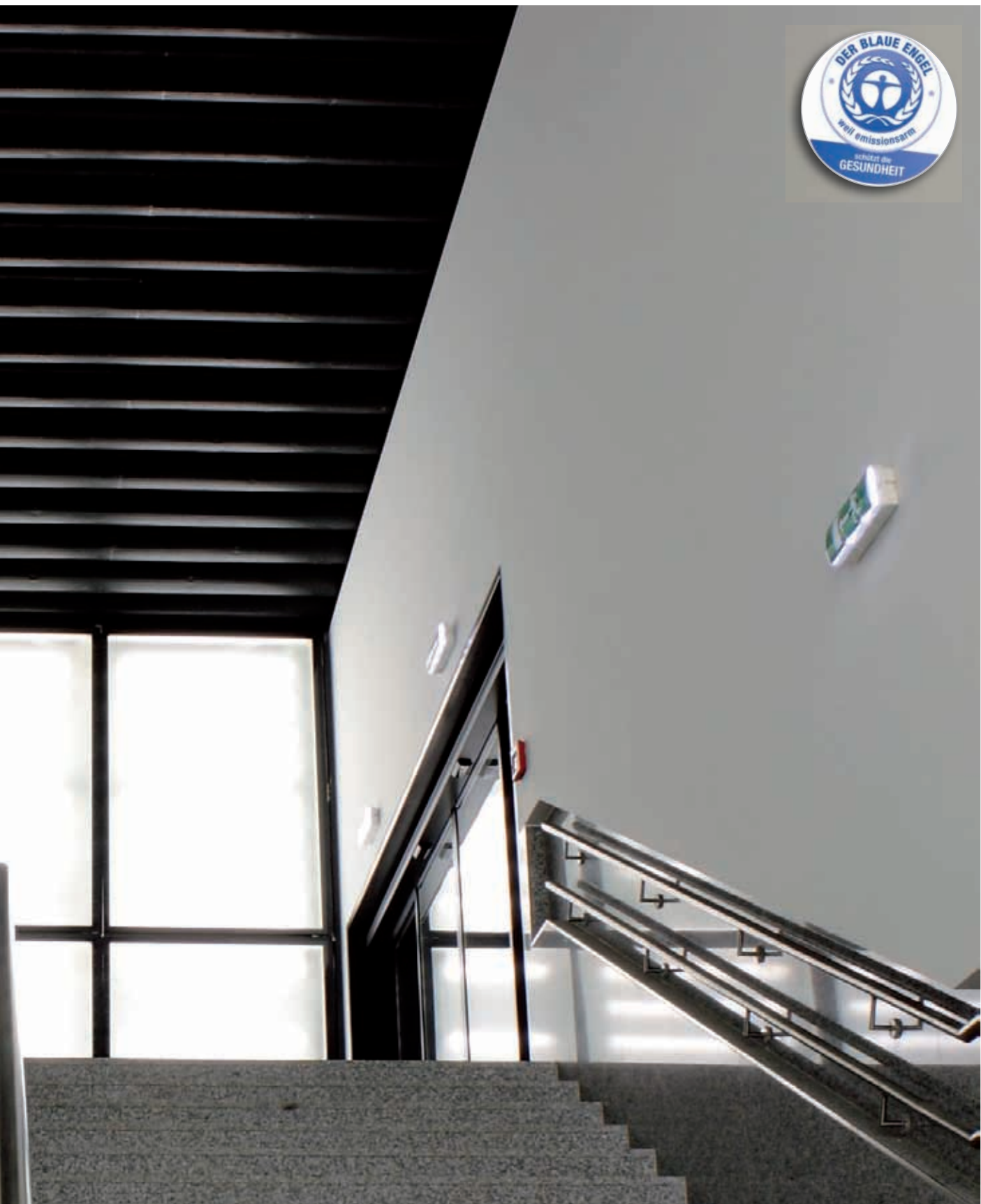
Typical areas of application

Office buildings, schools, places of public assembly, staircases, indoor swimming pools, underground car parks, tunnels, stations, industrial halls, firing ranges, recording studios, etc.

See the technical data sheet for further information.

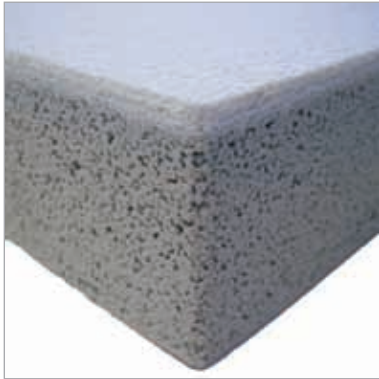


pinta phonestop V, jointless



Your acoustic solution with a system

 **pinta**acoustic



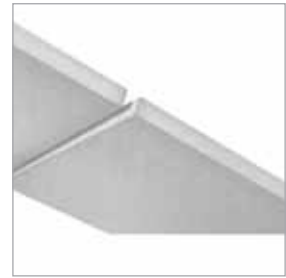
INVISIBLE ACOUSTICS MADE OF EXPANDED GLASS GRANULATE ...

... for large-area surface design by means of a jointless coated surface.

pinta phonestop V jointless for acoustics on wall and ceilings consists of a high-grade system comprising phonestop V acoustic panel, primer, acoustic adhesive and acoustic plaster. The acoustic system is acoustically highly effective and is based on the acoustic panel of expanded glass granulate. Developed by the Fraunhofer Institute for Building Physics, this material reduces reverberation time, is non-combustible in compliance with DIN 4102 Part 4, is purely mineral, insensitive to moisture, fiber-free and chemically resistant.

pinta phonestop V acoustic panels can be used on all load bearing substructures on indoor walls and ceilings. The acoustic panels are bonded directly to the wall or ceiling without substructure and cavity. The panels can be cut to size and trimmed with saws used for cutting porous concrete and commercially available drill bits are used for cutting out circular holes.

A seamless, monolithic appearance is achieved with the finely pored large-area pinta phonestop acoustic plaster pa 85 applied to the entire surface in the last work step. As shown on the pinta color chart, this thoroughly dyed acoustic plaster is available in white and many other fashionable colors.



Product advantages

- _ High absorption
- _ Jointless, large-area surface design
- _ Invisible acoustics
- _ Suitable for indoor ceilings and walls
- _ Absorber can be stressed mechanically
- _ Suitable for use in new buildings and renovation work
- _ Bonded without substructure and cavity
- _ Bonding on all load bearing substructures possible
- _ Good durability and mechanical properties
- _ Finely pored acoustic plaster in many fashionable colors

Acoustic plaster colors

- _ In compliance with the manufacturer's color chart.

Acoustic panel dimensions

- _ 625 x 625 x 50 mm
- _ 1,250 x 625 x 50 mm

Total thickness of the acoustic system

- _ approx. 56 - 60 mm

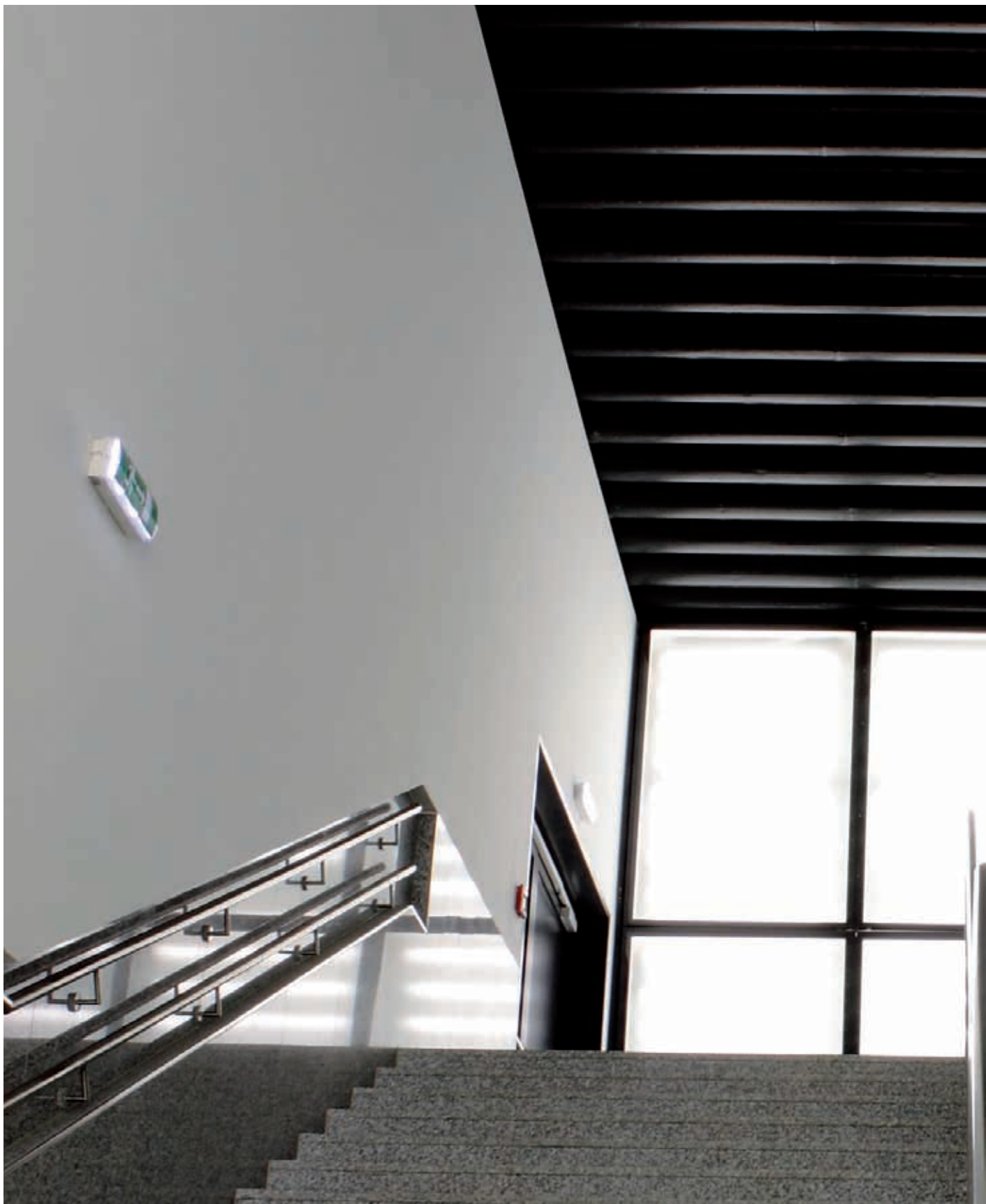
Product data: pinta phonestop V, jointless

Characteristic	DIN	Value
Base material*		Acoustic panel made of expanded glass granulate without binding agent, finely pored acoustic plaster
Color		Acoustic panel: gray and acoustic plaster in compliance with the manufacturer's color chart.
Mass per unit area of the system for d = 56 mm		approx. 24 kg/m ²
Sound absorption (with acoustic plaster)	EN ISO 1165-4	NRC 0,73 (ASTM C423) α_w 0.65 Class C
Characteristic pa 82 acoustic panel	DIN	Value
Bulk density	EN ISO 845	270 kg/m ³ ± 10 %
Compressive strength	DIN 1164	1.2 N/mm ² ± 10 %
Bending tensile strength	DIN 1164	0.5 N/mm ² ± 10 %
Modulus of elasticity (static)	DIN 1048-5	760 ± 80 N/mm ²
Modulus of elasticity (dynamic)	DIN 1048-5	1,020 ± 50 N/mm ²
Thermal conductivity λ	DIN 52612	$\lambda_{10, tr}$ 0.08 W/mK
Fire rating	DIN 4102 Part 4	A1
Length-specific flow resistance	DIN EN 29053	10 to 20 kPa s/m ⁴
Steam diffusion resistance	DIN 52615	25

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See the technical data sheet for further information.

pinta phonestop V, jointless



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