

Cleaneo[®] Acoustic Gypsum Board

Technical Data Sheet 12/2023

Cleaneo[®] Acoustic Gypsum Board

Perforated gypsum board for sound absorption

Product Description

Perforated gypsum boards, provide high sound absorption and contains zeolite for air cleaning effect. The gypsum boards feature a fibre fleece lining in black or white on the board rear. Without fibre fleece on request.

Storage

Boards should be stored on pallets in a dry environment. If the boards are stored inside, max. 6 pallets on each other; outside max. 5 pallets on each other. Gypsum boards should be stored so as to prevent damage to the front faces of each boards during packaging. If the boards are stored outside, they must be covered with nylon and etc.

Standard

TS EN 14190

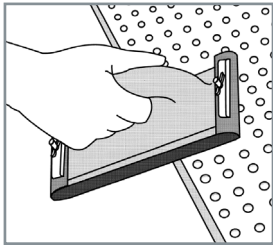
Fields of Application

- Suspended ceilings
- Drywall linings

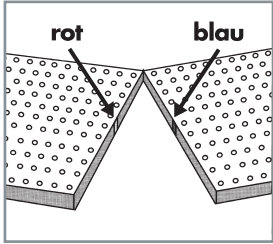
Properties

- High value of sound absorption
- Air cleaning effect
- Esthetic designs
- High value of sound absorption
- Easy application
- Bending is possible

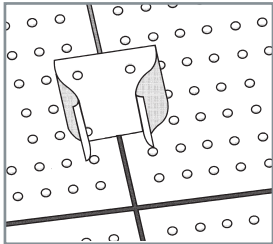
Application



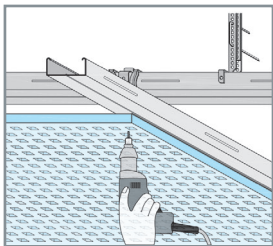
1. Lightly score the edges on the face side with sanding mesh, remove the dust and apply primer, e.g. such as Tiefengrund.



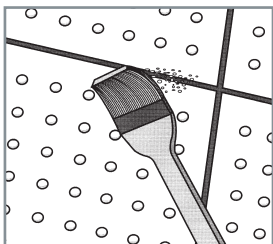
2. Cleaneo® SK boards with alternating perforation are marked red and blue on the cut edges. During installation always arrange red board markings to blue board markings (front and long edges).



3. Use the board aligner with a suitable perforation spacing to verify the perforation spacings as well as a template for drilling missing perforations (e.g. filled with compound).

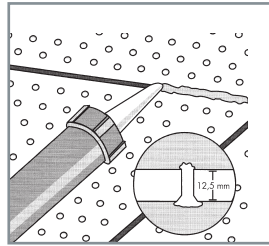


4. Knauf Cleaneo® Acoustic Boards are applied with cross joints (no staggering). Press the boards firmly onto the furring channel grid during screw fastening. Start fastening from the corner, where the board meets previously attached boards along long and front edge. Fasten along long edge first and then along front edge.

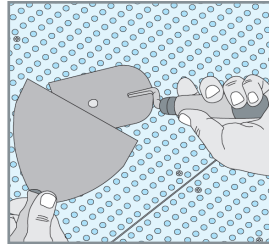


5. Clean joints from possibly settled dust after finishing the attachment of the boards using a dry brush. Prime again with Knauf Tiefengrund if necessary (e.g. in case of high dust formation during board application).

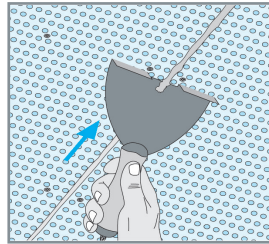
Note: The application of water is NOT suitable for dust bonding, it rather increases the risk of crack formation.



6. Cut the plastic nozzle to suit the joint width and attach it to the cartridge outlet. Fill joints fully with Knauf Uniflott using the Hand Pouch Gun.


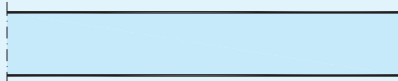


7. Possibly filled perforations can be opened using the appropriate Pilot Wheel. Chip off excess filler after hardening of the filler with Jet Spatula.

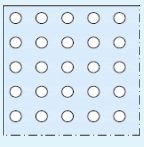
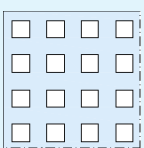
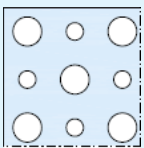
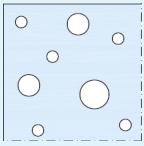
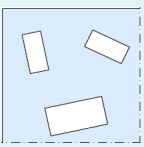


8. Possibly filled perforations can be opened using the appropriate Pilot Wheel (for 8/18 D, 8/12/50 D, 12/20/66 D). Sand off excess filler evenly after hardening. Before application of a coating the board surfaces must be free of dust. Prime with Tiefengrund before painting if necessary. Use a short pile lambskin roller to ensure that paint does not penetrate into the perforations and affect the acoustical performance of the fleece.

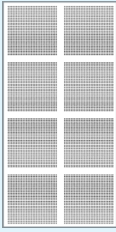
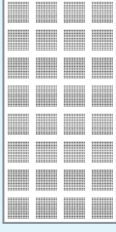
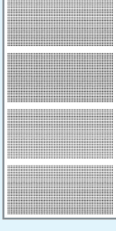
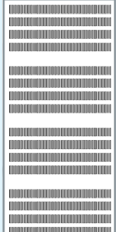
Technical Data

Description	Unit	12,5 mm	Standard
Reaction to fire	class	A2-s1,d0	TS EN 14190
Weight	kg/m ²	please check page 4	-
Long edges	-	Cut edge 	-
Front edges	-	Cut edge 	-
Width dimensional tolerance	mm	+0 / -4	TS EN 14190
Length dimensional tolerance	mm	+0 / -5	TS EN 14190
Thickness dimensional tolerance	mm	+0,5 / -0,5	TS EN 14190
Angularity dimensional tolerance (for 1m board width)	mm	≤ 2,5	TS EN 14190
Bending radius (dry bending)	mm	r ≥ 3000 / r ≥ 3500 (Random Circular Perforation)	-
Bending radius (wet bending)	mm	r ≥ 2000 / r ≥ 2500 (Random Circular Perforation)	-
Thermal conductivity λ	W/(m·K)	0,23	EN 12524
Flexural breaking load longitudinal direction	N	≥ 550	TS EN 14190
Flexural breaking load transverse direction	N	≥ 210	TS EN 14190
Sound absorption	α	please check page 4	TS EN ISO 11654

Technical Data

Board Type	Perforation	Thickness (mm)	Weight (kg/m ²)	Width (mm)	Length (mm)	Perforation Ratio (%)	Sound Absorption (α)	Material Number (black fleece)	Material Number (white fleece)
Circular Perforation 	6 / 18 D	12,5	~ 9,4	1134	2394	8,7	0,45 - 0,5	264796	264795
	8 / 18 D		~ 8,8	1134	2394	15,5	0,6 - 0,7	264776	264773
	10 / 23 D		~ 8,8	1127	2392	14,8	0,6 - 0,7	264792	264791
	12 / 25 D		~ 8,5	1150	2400	18,1	0,6 - 0,75	264799	264798
	15 / 30 D		~ 8,4	1140	2400	19,6	0,6 - 0,75	264801	264800
Square Perforation 	8 / 18 K	12,5	~ 8,8	1188	1998	19,8	0,6 - 0,75	71257	71258
	12 / 25 K		~ 8,8	1150	2400	23	0,6 - 0,8	264785	264784
Alternating Circular Perforation 	8 / 12 / 50 D	12,5	~ 9,0	1100	2400	13,1	0,6 - 0,65	264790	264789
	12 / 20 / 66 D		~ 8,4	1124	2376	19,6	0,6 - 0,7	264772	264764
Random Circular Perforation 	8 / 15 / 20 D	12,5	~ 9,3	1200	1998	9,9	0,5	539241	539242
Random Perforation 	-	12,5	~ 9,3	1199	1999	16,6	0,5	550248	550249

Technical Data

Board Type	Perforation	Thickness (mm)	Weight (kg/m ²)	Width (mm)	Length (mm)	Perforation Ratio (%)	Sound Absorption (α)	Material Number (black fleece)	Material Number (white fleece)
Block Perforation B4 	6 / 18 D	12,5	~ 8,5	1188	2376	7,2	0,35 - 0,65	280509	280508
	8 / 18 D		~ 8,5	1188	2376	12,1	0,35 - 0,65	280488	240487
	10 / 23 D		~ 8,5	1196	2392	12,7	0,35 - 0,65	280528	280527
	12 / 25 D		~ 8,5	1200	2400	13,8	0,35 - 0,65	280703	280702
	15 / 30 D		~ 8,5	1200	2400	15,9	0,35 - 0,65	280709	280708
	12 / 25 K		~ 8,5	1200	2400	17,7	0,35 - 0,65	94889	280533
Block Perforation B5 	6 / 18 D	12,5	~ 8,5	1188	2376	5,8	0,35 - 0,65	280512	280511
	8 / 18 D		~ 8,5	1188	2376	9,1	0,35 - 0,65	280503	280501
	10 / 23 D		~ 8,5	1196	2392	10,6	0,35 - 0,65	280530	280529
	12 / 25 D		~ 8,5	1200	2400	10,2	0,35 - 0,65	280705	280704
	15 / 30 D		~ 8,5	1200	2400	12,6	0,35 - 0,65	280711	280710
	12 / 25 K		~ 8,5	1200	2400	13	0,35 - 0,65	94942	280698
Block Perforation B6 	6 / 18 D	12,5	~ 8,5	1188	2376	7,7	0,35 - 0,65	280525	280523
	8 / 18 D		~ 8,5	1188	2376	12,9	0,35 - 0,65	280507	280504
	10 / 23 D		~ 8,5	1196	2392	13,2	0,35 - 0,65	280532	280531
	12 / 25 D		~ 8,5	1200	2400	14,8	0,35 - 0,65	280707	280706
	15 / 30 D		~ 8,5	1200	2400	16,8	0,35 - 0,65	280713	280712
	12 / 25 K		~ 8,5	1200	2400	18,9	0,35 - 0,65	280701	280700
Slotline B6 	-	12,5	~ 8	1200	2400	15,7	0,5 - 0,65	76180	94831

System Performance Values

Performance values as sound insulation, fire resistance etc. may differ acc. to the drywall system to be applied. Please check the performance values of the drywall systems;

[Knauf Technical Website](#)

[Document Center](#)

[Room Acoustic Simulation](#)

Application

Application should be done acc. to the applicable standards (TS 1475) and acc. to the Knauf Technical Brochures of the respective drywall system.

[Cleaneo® Brochure](#)

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