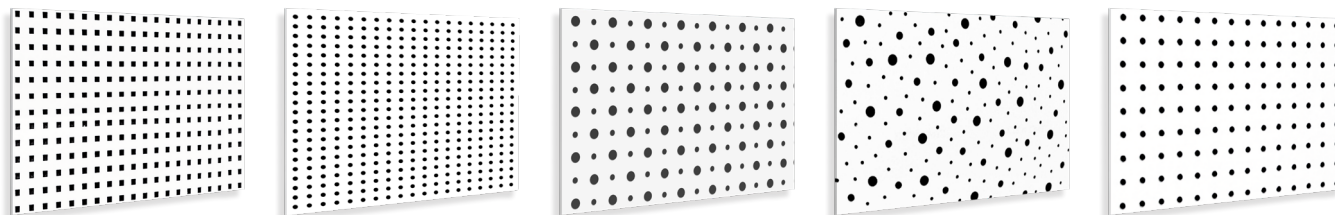


Knauf Cleaneo Acoustic

Product Data Sheet (08/2025)



Cleaneo perforated acoustic plasterboard combines decorative appeal with excellent sound absorption. Designed specifically for non-trafficable ceiling applications, it offers sleek aesthetics, superior acoustics, and easy installation for both new builds and renovations.

KEY FEATURES

- **High Acoustic Performance:** Achieves NRC values up to 0.80 for effective sound control.
- **Monolithic and Seamless Look:** Offers a smooth, joint-free finish using UFF edge profiles with Uniflott Jointing Compound.
- **Design Versatility:** Available in various perforation patterns for architectural flexibility.
- **Durable and Repaintable:** Can be repainted without compromising acoustic performance.
- **Lightweight and Efficient Installation:** Lightweight design ensures faster assembly with reduced labor.

- Studios
- Restaurants
- Education Facilities
- Offices and Commercial Spaces

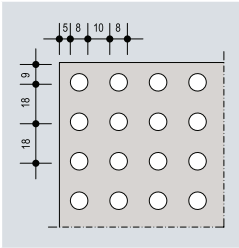
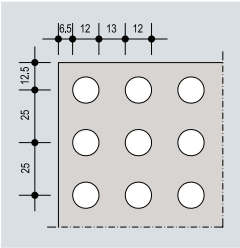
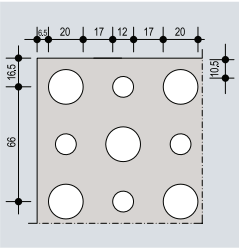
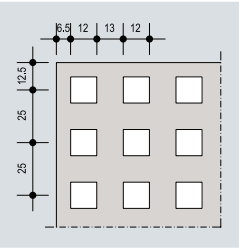
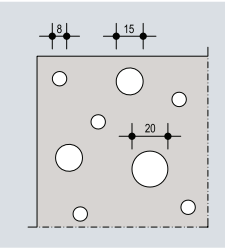
Limitations:

- **Indoor Use:** Strictly designed for internal, non-trafficable ceiling applications only.
- Avoid exposure to sustained temperatures exceeding 40°C and 95% RH.
- Avoid exposure to excessive, repetitive, or continuous humidity, chemical fumes, freezing temperature, corrosive substance or vibration before, during, and after installation.
- Ensure wall, floor cavities, and enclosed areas are dry before closing up or applying finishes.
- **DO NOT spray.** Filled or blocked perforations will reduce the sound absorption performance of Cleaneo.

APPLICATIONS

Designed for spaces that need to address noise control, acoustic comfort, and aesthetic needs:

- Retail Spaces

| |  |  |  |  |  |
|---------------|---|---|---|--|---|
| | Circular 8/18 R | Circular 12/25 R | Alternating Circular 12/20/66 R | Square 12/25 Q | Random Plus 8/15/20 R |
| Hole Diameter | 8 mm at 18 mm on centers | 12 mm at 25 mm on centers | Alternating 12 mm & 20 mm | 12 mm x 12 mm at 25 mm on centers | 8 mm, 15 mm & 20 mm |
| Open Area | 15.5% | 18.1% | 19.6% | 23% | 9.9% |
| Thickness | 12.5 mm | 12.5mm | 12.5mm | 12.5 mm | 12.5mm |
| Length | 1998 mm | 2000 mm | 1980 mm | 2000 mm | 2000 mm |
| Width | 1188 mm | 1200 mm | 1188 mm | 1200 mm | 1200 mm |



DETAILED ACOUSTIC DATA

* Calculated following the ASTM C423 : 1989 Standard

| Pattern (open area) | Insulation | Cavity (mm) | Absorption Coefficient (NRC)* | | | | | | | | | | | | | | | | | NRC | |
|---|------------|-------------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | Sound Frequency (Hz) | | | | | | | | | | | | | | | | | | |
| | | | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | | 5000 |
| Circular 8/18 R (15.5%) | No | E65 | 0.12 | 0.12 | 0.18 | 0.25 | 0.31 | 0.41 | 0.48 | 0.61 | 0.64 | 0.71 | 0.74 | 0.73 | 0.69 | 0.65 | 0.61 | 0.55 | 0.61 | 0.70 | 0.60 |
| | | E200 | 0.36 | 0.47 | 0.50 | 0.52 | 0.57 | 0.66 | 0.67 | 0.69 | 0.70 | 0.65 | 0.58 | 0.59 | 0.58 | 0.55 | 0.56 | 0.58 | 0.64 | 0.75 | 0.60 |
| | | E400 | 0.44 | 0.52 | 0.63 | 0.66 | 0.62 | 0.65 | 0.60 | 0.57 | 0.62 | 0.62 | 0.59 | 0.60 | 0.59 | 0.57 | 0.56 | 0.58 | 0.62 | 0.72 | 0.60 |
| | Yes | E65 | 0.23 | 0.34 | 0.45 | 0.45 | 0.56 | 0.62 | 0.67 | 0.75 | 0.75 | 0.77 | 0.73 | 0.70 | 0.69 | 0.62 | 0.59 | 0.59 | 0.64 | 0.74 | 0.65 |
| | | E200 | 0.40 | 0.55 | 0.59 | 0.57 | 0.66 | 0.72 | 0.69 | 0.70 | 0.69 | 0.66 | 0.66 | 0.65 | 0.62 | 0.61 | 0.59 | 0.61 | 0.64 | 0.79 | 0.65 |
| | | E400 | 0.46 | 0.53 | 0.61 | 0.66 | 0.59 | 0.63 | 0.59 | 0.61 | 0.67 | 0.68 | 0.68 | 0.67 | 0.63 | 0.62 | 0.58 | 0.60 | 0.66 | 0.76 | 0.65 |
| Circular 12/25 R (18.1%) | No | E65 | 0.11 | 0.11 | 0.16 | 0.23 | 0.30 | 0.41 | 0.48 | 0.62 | 0.70 | 0.76 | 0.79 | 0.78 | 0.73 | 0.70 | 0.65 | 0.50 | 0.50 | 0.65 | 0.60 |
| | | E200 | 0.37 | 0.49 | 0.53 | 0.55 | 0.65 | 0.70 | 0.72 | 0.75 | 0.74 | 0.69 | 0.61 | 0.62 | 0.61 | 0.57 | 0.60 | 0.56 | 0.52 | 0.69 | 0.65 |
| | | E400 | 0.45 | 0.55 | 0.68 | 0.69 | 0.67 | 0.69 | 0.65 | 0.58 | 0.65 | 0.65 | 0.63 | 0.63 | 0.61 | 0.61 | 0.59 | 0.55 | 0.54 | 0.68 | 0.60 |
| | Yes | E65 | 0.21 | 0.32 | 0.43 | 0.46 | 0.57 | 0.67 | 0.71 | 0.80 | 0.81 | 0.84 | 0.80 | 0.74 | 0.74 | 0.67 | 0.63 | 0.57 | 0.59 | 0.70 | 0.70 |
| | | E200 | 0.40 | 0.57 | 0.59 | 0.61 | 0.70 | 0.75 | 0.74 | 0.76 | 0.73 | 0.70 | 0.68 | 0.70 | 0.68 | 0.65 | 0.64 | 0.61 | 0.60 | 0.74 | 0.70 |
| | | E400 | 0.47 | 0.56 | 0.68 | 0.70 | 0.64 | 0.68 | 0.65 | 0.67 | 0.71 | 0.75 | 0.72 | 0.71 | 0.69 | 0.66 | 0.64 | 0.60 | 0.60 | 0.74 | 0.65 |
| Alternating Circular 12/20/66 R (19.6%) | No | E65 | 0.10 | 0.10 | 0.15 | 0.22 | 0.28 | 0.39 | 0.48 | 0.62 | 0.70 | 0.77 | 0.85 | 0.78 | 0.62 | 0.60 | 0.57 | 0.50 | 0.55 | 0.65 | 0.60 |
| | | E200 | 0.38 | 0.49 | 0.55 | 0.57 | 0.67 | 0.74 | 0.76 | 0.80 | 0.80 | 0.74 | 0.64 | 0.59 | 0.52 | 0.50 | 0.53 | 0.54 | 0.58 | 0.70 | 0.65 |
| | | E400 | 0.46 | 0.59 | 0.71 | 0.73 | 0.67 | 0.72 | 0.67 | 0.61 | 0.68 | 0.70 | 0.66 | 0.62 | 0.53 | 0.52 | 0.54 | 0.54 | 0.58 | 0.68 | 0.60 |
| | Yes | E65 | 0.20 | 0.30 | 0.42 | 0.45 | 0.58 | 0.67 | 0.74 | 0.84 | 0.87 | 0.91 | 0.89 | 0.82 | 0.65 | 0.60 | 0.57 | 0.57 | 0.63 | 0.71 | 0.75 |
| | | E200 | 0.40 | 0.58 | 0.60 | 0.63 | 0.72 | 0.79 | 0.77 | 0.80 | 0.78 | 0.75 | 0.74 | 0.74 | 0.63 | 0.57 | 0.58 | 0.60 | 0.64 | 0.76 | 0.70 |
| | | E400 | 0.48 | 0.59 | 0.70 | 0.73 | 0.65 | 0.72 | 0.68 | 0.68 | 0.75 | 0.81 | 0.79 | 0.75 | 0.63 | 0.59 | 0.58 | 0.59 | 0.65 | 0.75 | 0.70 |
| Square 12/25 Q (23.0%) | No | E65 | 0.09 | 0.09 | 0.15 | 0.20 | 0.28 | 0.38 | 0.49 | 0.64 | 0.73 | 0.79 | 0.85 | 0.83 | 0.78 | 0.75 | 0.69 | 0.50 | 0.59 | 0.71 | 0.65 |
| | | E200 | 0.37 | 0.50 | 0.56 | 0.58 | 0.70 | 0.76 | 0.78 | 0.82 | 0.82 | 0.75 | 0.65 | 0.67 | 0.66 | 0.62 | 0.64 | 0.56 | 0.61 | 0.75 | 0.70 |
| | | E400 | 0.45 | 0.61 | 0.73 | 0.74 | 0.69 | 0.75 | 0.68 | 0.62 | 0.68 | 0.70 | 0.66 | 0.68 | 0.67 | 0.64 | 0.63 | 0.55 | 0.60 | 0.71 | 0.65 |
| | Yes | E65 | 0.19 | 0.29 | 0.42 | 0.44 | 0.58 | 0.71 | 0.78 | 0.87 | 0.90 | 0.93 | 0.88 | 0.84 | 0.81 | 0.77 | 0.71 | 0.62 | 0.70 | 0.80 | 0.80 |
| | | E200 | 0.40 | 0.62 | 0.63 | 0.65 | 0.76 | 0.82 | 0.80 | 0.83 | 0.83 | 0.75 | 0.75 | 0.77 | 0.76 | 0.73 | 0.73 | 0.65 | 0.70 | 0.84 | 0.75 |
| | | E400 | 0.48 | 0.62 | 0.73 | 0.76 | 0.68 | 0.75 | 0.69 | 0.69 | 0.78 | 0.82 | 0.80 | 0.80 | 0.77 | 0.74 | 0.72 | 0.65 | 0.70 | 0.82 | 0.75 |
| Random 8/15/20 R (9.9%) | No | E65 | 0.15 | 0.15 | 0.22 | 0.27 | 0.31 | 0.39 | 0.44 | 0.50 | 0.52 | 0.59 | 0.60 | 0.58 | 0.49 | 0.43 | 0.39 | 0.38 | 0.44 | 0.50 | 0.45 |
| | | E200 | 0.34 | 0.43 | 0.45 | 0.46 | 0.48 | 0.53 | 0.53 | 0.56 | 0.55 | 0.52 | 0.49 | 0.49 | 0.42 | 0.39 | 0.37 | 0.39 | 0.45 | 0.53 | 0.50 |
| | | E400 | 0.40 | 0.40 | 0.48 | 0.50 | 0.50 | 0.48 | 0.49 | 0.48 | 0.51 | 0.51 | 0.50 | 0.49 | 0.44 | 0.41 | 0.38 | 0.40 | 0.45 | 0.51 | 0.45 |
| | Yes | E65 | 0.29 | 0.38 | 0.43 | 0.42 | 0.47 | 0.51 | 0.53 | 0.59 | 0.57 | 0.59 | 0.58 | 0.55 | 0.46 | 0.42 | 0.37 | 0.39 | 0.45 | 0.52 | 0.50 |
| | | E200 | 0.34 | 0.48 | 0.50 | 0.49 | 0.49 | 0.52 | 0.53 | 0.54 | 0.52 | 0.53 | 0.52 | 0.51 | 0.44 | 0.41 | 0.38 | 0.40 | 0.70 | 0.56 | 0.50 |
| | | E400 | 0.41 | 0.43 | 0.50 | 0.50 | 0.47 | 0.48 | 0.47 | 0.50 | 0.55 | 0.55 | 0.56 | 0.52 | 0.46 | 0.43 | 0.40 | 0.40 | 0.46 | 0.53 | 0.50 |

CLEaneo SPANS TABLES FOR PERFORATION PATTERNS

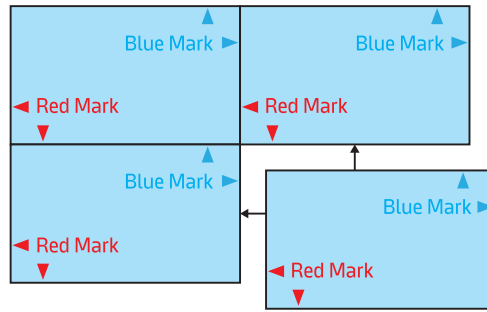
* Install one additional Cross Furring Channel along the front edges for fixing the screws.

| Perforation Patterns | Main Furring Channel Spacing KC50 | Cross Furring Channel Spacing KC50 | Screw spacing end of panels (short edge) | Screw spacing in the field of panels |
|------------------------------------|--------------------------------------|---------------------------------------|---|---|
| Circular 8/18 R | 1000 mm | 333 mm | 200 mm | 300 mm |
| Circular 12/25 R | 1000 mm | 333.3 mm | 200 mm | 300 mm |
| Square 12/25 Q | 1000 mm | 333.3 mm | 200 mm | 300 mm |
| Alternating Circular 12/20/66 R | 1000 mm | 330 mm | 200 mm | 300 mm |
| Random 8/15/20 R | 1000 mm | 333.3 mm | 200 mm | 300 mm |

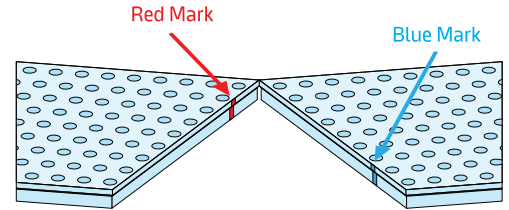


CLEaneo INSTALLATION LAYOUT

Align UFF edges with red and blue marking during installation. Perimeter panel rotated 180° will align blue and blue UFF edges. (or red to red UFF edges).



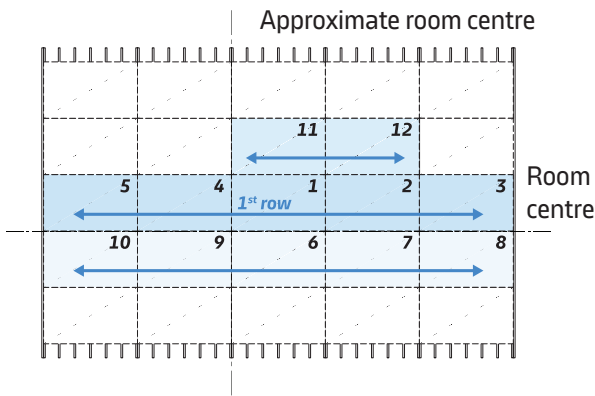
MAKE THE RED AND BLUE MARK FACING EACH OTHER



BOARD ARRANGEMENT

Rooms up to approx. 150 m²

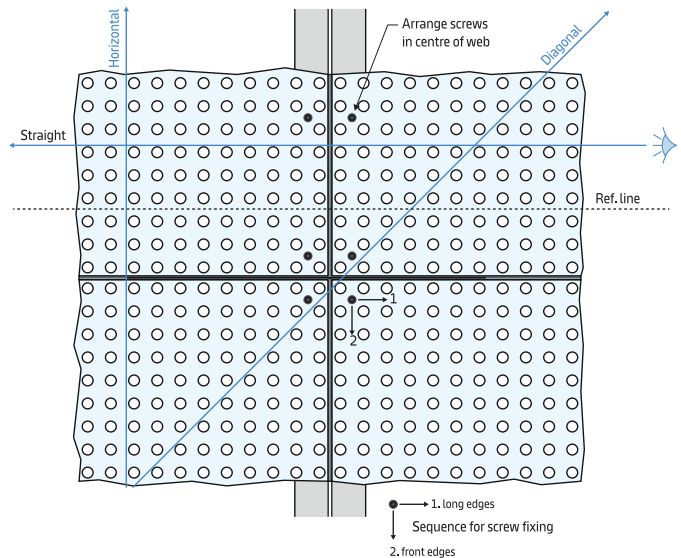
- 1st board row: Start application in the middle of the room.
- Install the remaining board rows: parallel to 1st row.



VERIFY THE PATTERN TO ENSURE IT IS PROPERLY ALIGNED (VERTICAL, HORIZONTAL, AND DIAGONAL)

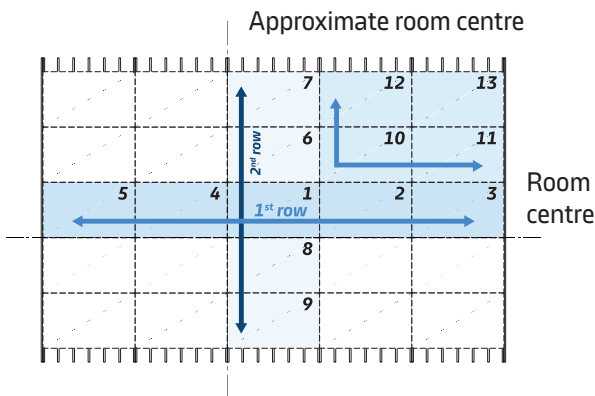
Remark

*Install one additional Cross Furring Channel along the front edges for fixing the screws.



Rooms from approx. 150 m²

- 1st board row: Start application in the middle of the room.
- 2nd board row: transverse to 1st row – commence approx. in room centre.
- Remaining ceiling surface: Install after application of 1st and 2nd row.



Submittal Sheet

| PROJECT INFORMATION | |
|---------------------|--|
| Project Name | |
| Project Location | |
| Contractor Name | |
| Date of Submission | |

| REVIEW AND APPROVAL SECTION | | | | |
|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Reviewer Name and Signature | | | | |
| Product Name | Approved | With Revisions | Rejected | For Further Deliberation |
| FOR INTERIOR | | | | |
| <i>Gypsum Boards</i> | | | | |
| StandardShield | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SpanShield | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| MoistureShield | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| FireShield | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DenseShield | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| MultiShield | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| EchoStop | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cleaneo Acoustic | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <i>Compounds & Finishing</i> | | | | |
| Premium Jointing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Premium Premix | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Paper Tape | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| FOR EXTERIOR | | | | |
| <i>Cement Board</i> | | | | |
| Aquapanel | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Notes | | | | |

