

Caterina Cucina & Farina - Milano IT



Kindergarten Amatori – Vicenza IT



Interporto - Trento IT



It'So Natural - Milano IT



Martino Sansi Onlus pavilion – Sondrio IT



Showroom Equipe - Vicenza IT



Zamet Center - Rijeka HR



Silos parking - Trieste IT



Caffelarte - Treviso IT



ACOUSTIC | DESIGN products are excellent acoustic insulation boards with high insulation performance and they allow the creation of safe sustainable spaces with innovative design.



Sustainability and eco-compatibility

Certified boards by ANAB-ICEA and natureplus for the sustainability of the product and the production process.

The raw materials that compose eco-friendly CELENIT boards are: wood from sustainably managed forests (PEFC™ or FSC® certificate); Portland cement and calcium carbonate residue of marble to form the percentage of recycled material (ICEA certificate). The production process has low resource consumption and low emissions. CELENIT panels can therefore contribute to the evaluation of the sustainability of buildings through certification protocols.



Indoor comfort

CELENIT false ceilings and coverings ensure well-being through naturalness.

Wood wool boards favor users being in especially crowded buildings. They are eco-friendly, certified by ANAB-ICEA and natureplus, which ensure not causing harm to individuals' health; they are tested to be free from critical emissions of carcinogens, formaldehyde, volatile organic compounds VOC and asbestos, according to EN 13964.



Fire protection

Planning that ensures the safety of users in case of fire is crucial.

In crowded public places, fire safety must be designed very carefully in order to avoid risk to people's lives and damage to the goods. Wood wool panels are classified in Fire Euroclass A2-s1,d0 and B-s1,d0. Furthermore, the fire resistance values of false ceilings can reach 60 minutes of fire resistance (EI60 certificate), maintaining its aesthetic appearance and acoustic qualities.



Accidental ceiling drop safety

Compactness and mechanical strength for safe and certified design.

Thanks to the hardness and the mechanical resistance of wood wool panels, CELENIT provides certified solutions to guarantee the safety of the people under CELENIT false ceilings when there is the risk of dangerous material falling, especially from old ceilings. This is ensured by retaining all the natural and aesthetical features of ACOUSTIC | DESIGN products. CELENIT boards can be easily removed if an inspection of the ceiling is required to check its safety over the time.



Sound absorption

Porosity and elasticity are the basic features. CELENIT boards can be classified as natural sound absorbers. They dissipate sound energy through their cellular structure by progressively reducing energy, which is converted into heat. They have a good level of sound absorption especially at higher frequencies (acute tones), which are the more common ones. CELENIT panel absorption increases with thickness and when coupled with a layer of mineral wool.

Research has allowed us to make a large database of sound absorption certificates available to the designer. The tests were carried out at the laboratories of Giordano Institute using three main application methods - adherence, empty air gap and background filled with mineral wool or wood fiber - as well as using different product ranges, varying textures, thicknesses, and lowering.



Flexible design

CELENIT recommends versatility and flexibility as the passwords for creativity!

Wood wool boards can be used for countless creative solutions. Baffles applications, curved finishing, furnishings, special patterns, shelves and cubes. The simplicity of the boards allows creating attractive shapes with an innovative design. CELENIT panels are exceptionally versatile with high aesthetic value, able to meet all designers' modern expectations.



Customized design solutions

Designers can define their own interior design line with wood wool coverings.

For designers who are looking for new and original ideas to express their creativity, CELENIT offers products with features that enhance the aesthetic finish. From pose type to manufactured edges, from textures to the different colorations available, designers have a lot of creative ideas to shape their own architectural projects, customizing interior design by enhancing aesthetic features.



Impact resistance and balls

Impact resistance is essential in sports facilities. CELENIT has certified solutions for false ceilings and wall coverings that are resistant to being hit by balls. This feature is very important to guarantee the stability of covering systems. The resistance of the boards has been tested by Giordano Institute, according to EN 13964 and DIN 18032-3, obtaining the A1 class resistance, which is highest attainable.



Thermal and acoustic insulation

CELENIT wood wool false ceilings and coverings for total insulation.

CELENIT solutions for acoustic coverings improve winter thermal insulation and thermal inertia of the buildings. In addition, CELENIT offers a wide range of solutions for acoustic insulation with sound insulating power certified for partitions, perimeter walls and lightweight roofs. These certifications are essential to correctly assess the acoustic insulation of the façade.



EDUCATION
classrooms, canteens, common areas



LIFESTYLE
bars, restaurants, hotels



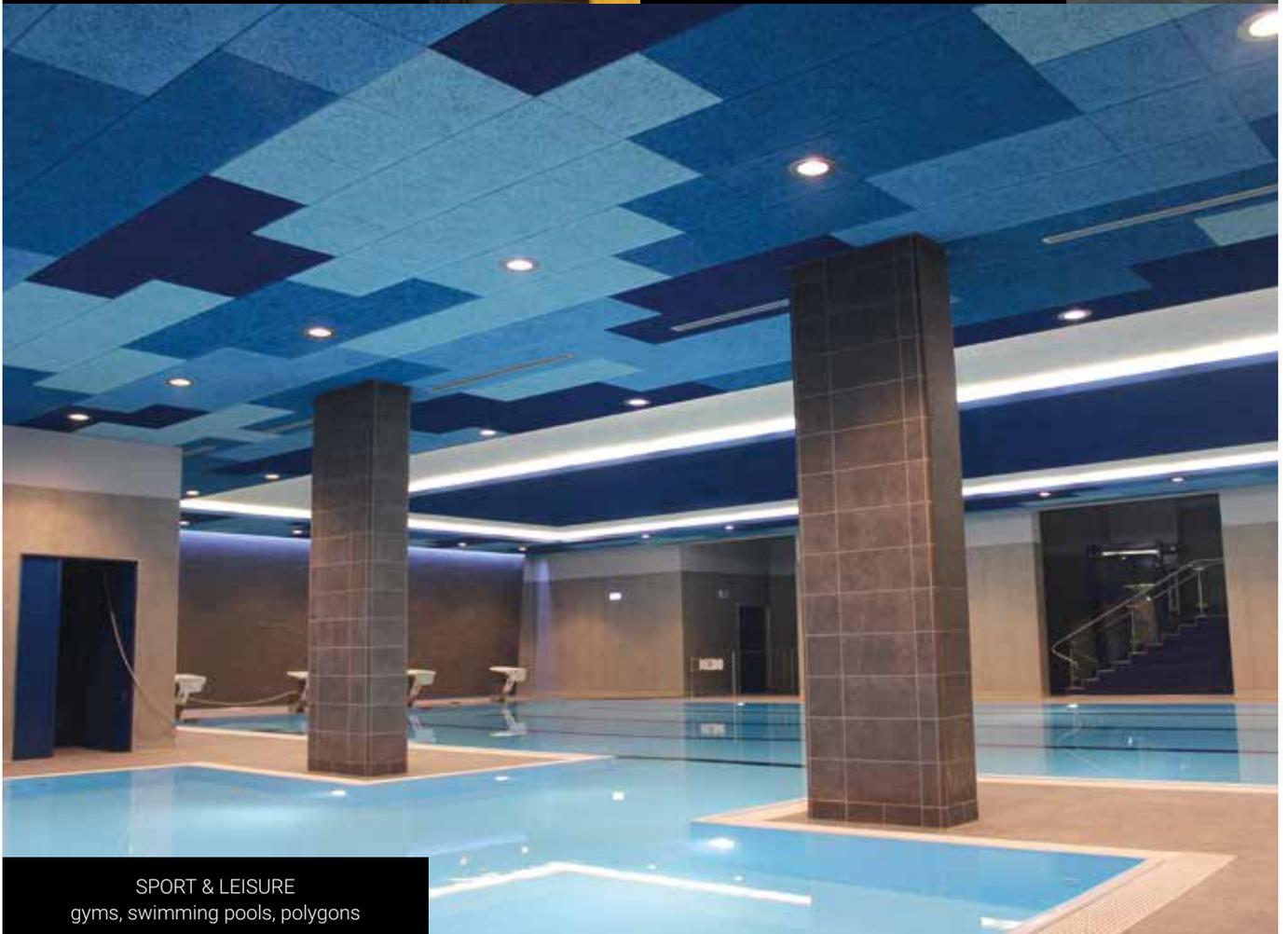
OFFICES
workplaces and conference rooms



PUBLIC



INDUSTRY
large work environments



SPORT & LEISURE
gyms, swimming pools, polygons



FALSE CEILINGS

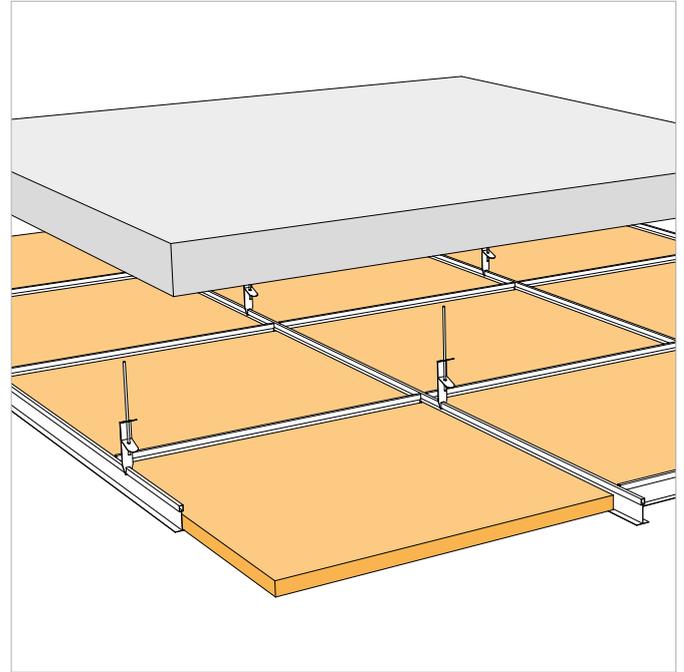
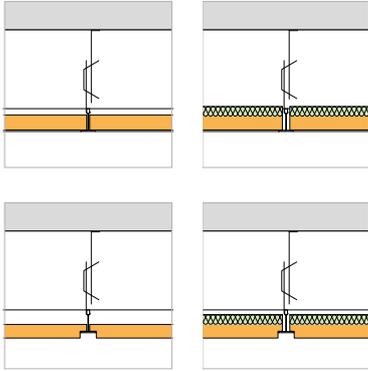
False ceiling for a high-level design.





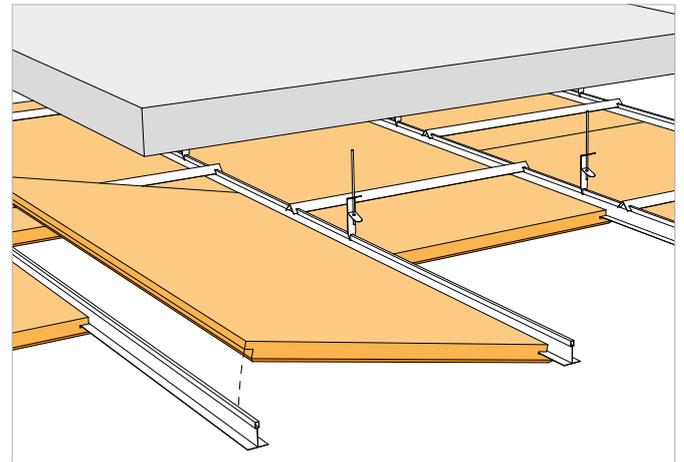
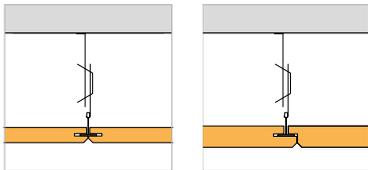
False ceilings with visible structure

This system is simple and traditional, it is perfectly suited to upgrading works and accentuates the shape and the false ceiling structure by emphasizing T or Omega metal profiles. Lowered edges (RD or RS code) partially hide the structure, creating lighting effects and very interesting shadows. This system allows easy access to installations behind them.



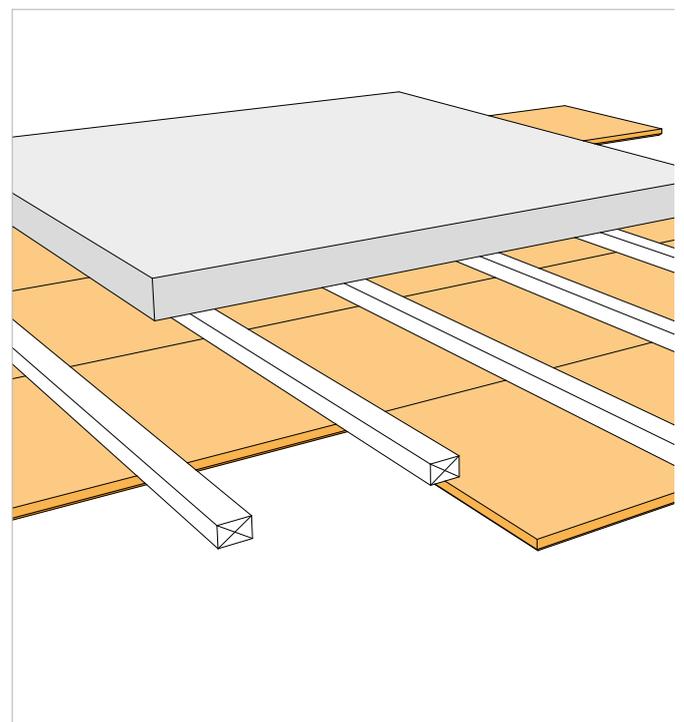
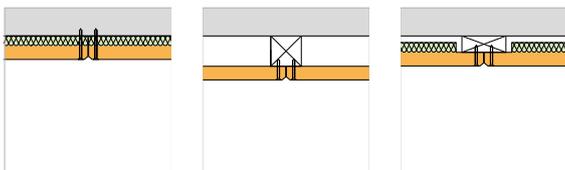
Installation on hidden T profile

The boards with special edges (PM or PS code) are placed into T metal profiles, which cover the structure, creating a continuous ceiling surface.



Installation on hidden structure

CELENIT panels can be directly screwed onto wooden laths or a C metal profile. Boards can also be fastened with screws to the ceiling.





BAFFLES AND RAFTS

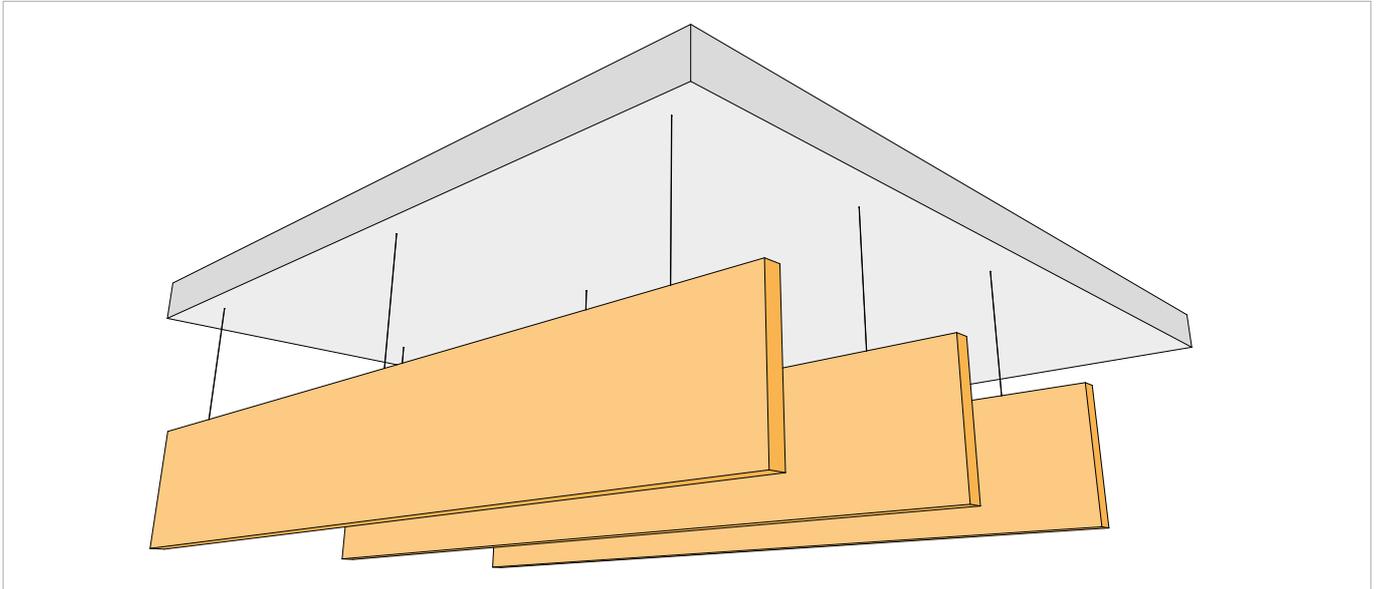
A creative approach for versatile and attractive solutions!





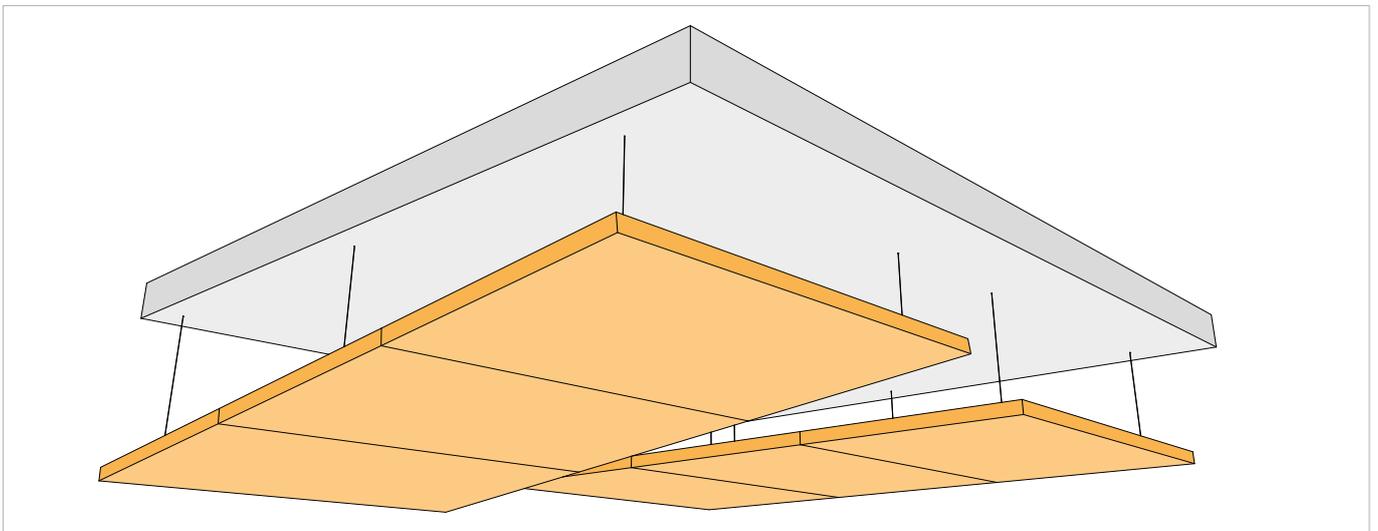
Baffles

Acoustic corrections for places where it is not possible to install an entire false ceiling. The application of baffles is the ideal option for acoustic correction due to the wide sound absorbing surface provided by the vertical elements.



Rafts

An innovative application for specific acoustic corrections designed for wide spaces with sound sources and receivers, where covering the entire ceiling surface is not necessary. It improves the acoustic comfort of the place by giving particular expression to design.





DESIGN SOLUTIONS

Versatility, easy installation and creativity!





CELENIT allows customizing the covering system, as well as the boards. Specific systems with the most varied application methods permit creating aesthetic and acoustic solutions. Designers and architects will be inspired by CELENIT wood wool solutions.

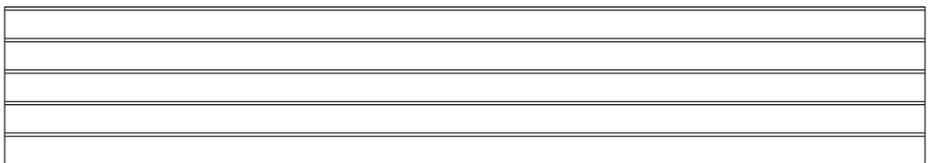
Choice means defining the panel texture and natural or painted colors. Then the board thickness and edge finishing can be defined, which differ according to application system.

Sizes

Standard panel dimensions. Non-standard cuts can be requested. Wood wool panels can also be easily cut on site with simple tools that are readily available.

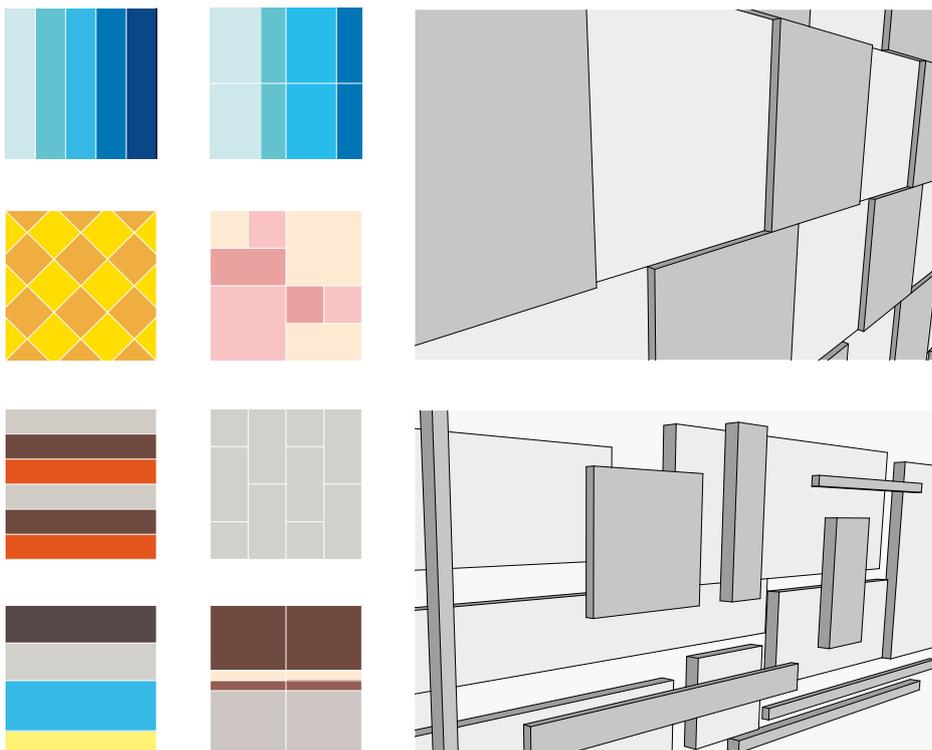


Boards with longitudinal groove



The panels with thin or extra-thin texture can be provided with this particular surface treatment to simulate a wood slat-effect.

Compositions and overlays



You can create three-dimensional volumetric effects by combining and overlaying panels with different thicknesses. Boards can also be easily cut and processed, creating patterns with shapes and different color shades for a unique and appealing expression of design.



Our ranges



CELENIT ACOUSTIC

Boards made of mineralized wood wool bound with white Portland cement

Products: **NB - AB - ABE - A - AE**



CELENIT ACOUSTIC FIRE

Boards made of mineralized wood wool bound with white Portland cement coupled to a layer of plasterboard type F

Products: **AB/F**



CELENIT ACOUSTIC A2

Boards in Euroclass A2-s1, d0 made of mineralized wood wool bound with white Portland cement and mineral powder

Products: **AB/A2 - ABE/A2 - A/A2 - AE/A2**



CELENIT ACOUSTIC MINERAL

Boards made of mineralized wood wool bound with white Portland cement coupled to a layer of rock wool

Products: **L2ABE15 - L2AB15
L2ABE25 - L2AB25
L2ABE35 - L2AB35
L2ABE25C - L2AE25C
L3ABE - L3AE**



CELENIT ACOUSTIC MINERAL A2

Boards in Euroclass A2-s1, d0 made of mineralized wood wool bound with white Portland cement and mineral powder coupled to a layer of rock wool

Products: **L2ABE15/A2 - L2AB15/A2
L2ABE25/A2 - L2AB25/A2
L2ABE25C/A2 - L2AE25C/A2
L3ABE/A2 - L3AE/A2**



CELENIT ACOUSTIC

Range

CELENIT NB

Thermal and acoustic insulation board, consisting of mineralized fir wood wool bound with white Portland cement. Wood wool is 3 mm wide. It complies with EN 13168 and EN 13964 standards.

CELENIT ACOUSTIC product range with **standard texture**. It has significant sound absorption properties, thermal insulation and thermal inertia, fire protection, moisture resistance, impact resistance, durability and naturalness.

In addition to wall and ceiling coverings, **CELENIT NB** is also used as permanent formwork with visible finishing.



Applications



False ceilings, wall coverings, baffles, rafts and design solutions

Technical data

Dimensions

2400x600 - 2000x600 - 1200x600 - 600x600 mm

Thickness

15 - 25 - 35 - 50 mm

Reaction to fire

Euroclass B-s1, d0

Environmental certifications

ANAB-ICEA

natureplus

PEFC™ o FSC®

Recycled content

LEED credits attestation



CELENIT ACOUSTIC

Range

CELENIT AB

Thermal and acoustic insulation board, consisting of mineralized thin fir wood wool bound with white Portland cement. Wood wool is 2 mm wide. It complies with EN 13168 and EN 13964 standards.

Thanks to its **thin texture** and unique compactness, toughness and mechanical strength, **CELENIT AB** is the perfect material for a **highly aesthetic sound-absorbing finish**, with optimal reaction to fire, impact resistance and unalterability in contact with moisture.

It is the wood wool panel with excellent sound absorption performance, with certified **α_w values up to 0.95**.

Also available with grey Portland cement (CELENIT A).



Applications



False ceilings, wall coverings, baffles, rafts and design solutions

Technical data

Dimensions

2400x600 - 2000x600 - 1200x600 - 600x600 mm

Thickness

15 - 25 - 35 - 50 mm

Reaction to fire

Euroclass B-s1, d0

Sound absorption

α_w up to 0.95

Environmental certifications

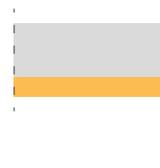
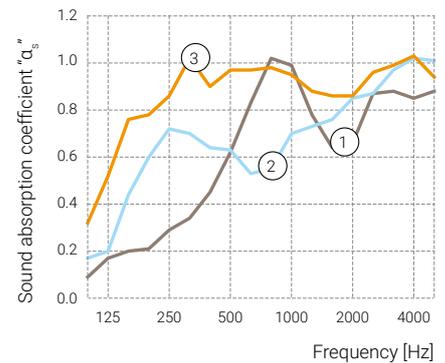
ANAB-ICEA

natureplus

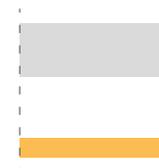
PEFC™ o FSC®

Recycled content

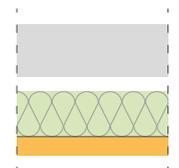
LEED credits attestation



① Application in adherence
 α_w up to 0.60



② Empty air-gap
 α_w up to 0.65



③ Background filling with rock wool
 α_w up to 0.95



CELENIT ACOUSTIC

Range

CELENIT ABE

Thermal and acoustic insulation board, consisting of mineralized extra-thin fir wood wool bound with white Portland cement. Wood wool is 1 mm wide. It complies with EN 13168 and EN 13964 standards .

Thanks to its **extra-thin texture** and unique compactness, toughness and mechanical strength, **CELENIT ABE** is the perfect material for a **highly aesthetic sound-absorbing finish**, with optimal reaction to fire, impact resistance and unalterability in contact with moisture.

It is the wood wool panel with the best sound absorption performance, with certified **α_w values up to 1.00**.

Also available with grey Portland cement (CELENIT AE).



Applications



False ceilings, wall coverings, baffles, rafts and design solutions

Technical data

Dimensions

2400x600 - 2000x600 - 1200x600 - 600x600 mm

Thickness

15 - 25 - 35 mm

Reaction to fire

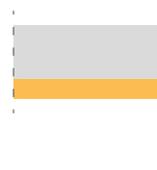
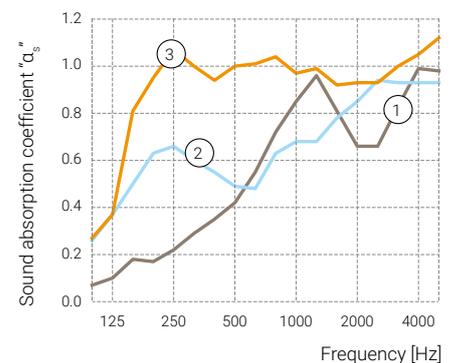
Euroclass B-s1, d0

Sound absorption

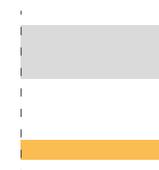
α_w up to 1.00

Environmental certifications

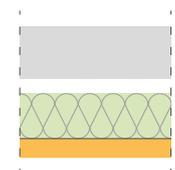
ANAB-ICEA
natureplus
PEFC™ o FSC®
Recycled content
LEED credits attestation



① Application in adherence
 α_w up to 0.50



② Empty air-gap
 α_w up to 0.70



③ Background filling with rock wool
 α_w up to 1.00



CELENIT ACOUSTIC FIRE

Range

CELENIT AB/F

Composite thermal and acoustic insulation board, EI 60 fire resistance, consisting of a layer of mineralized thin fir wood wool bound with white Portland cement in compliance with the EN 13168 standard, 25 mm thick, coupled to a layer of plasterboard type F, in compliance with the EN 520 standard, 15 mm thick. Wood wool is 2 mm wide. It complies with the EN 13964 standard.

CELENIT ACOUSTIC FIRE is the **wood wool panel coupled to a fireproof plasterboard**, which achieves superior fire performance while maintaining all the aesthetic, eco-friendly, sound absorption and mechanical strength features. False ceilings with CELENIT AB/F are **certified EI 60 fire resistance**, allowing all fire problems to be solved, especially in public buildings and schools.



Applications



False ceilings

PRODUCTS:
CELENIT AB/F

Technical data

Dimensions

1200x600 mm

Thickness

40 (25/15) mm

Reaction to fire

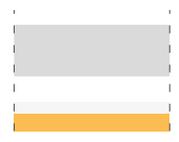
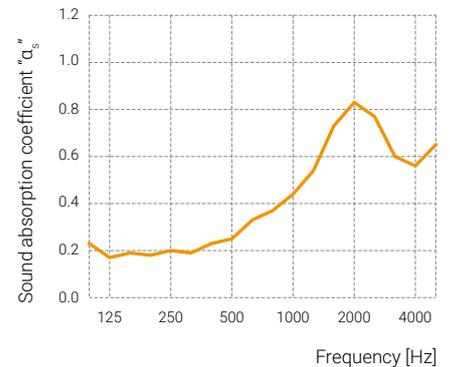
Euroclass B-s1, d0

Sound absorption

α_w up to 0.35

Environmental certifications

PEFC™ o FSC®



Empty air-gap

α_w up to 0.35



CELENIT ACOUSTIC A2

Range

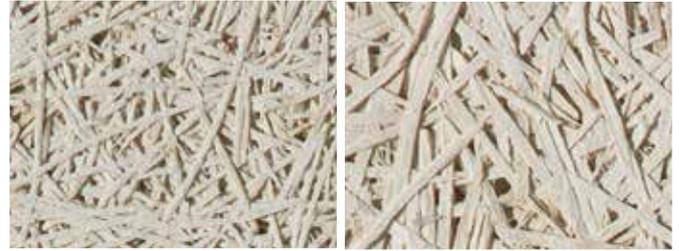
Thermal and acoustic insulation board in Euroclass A2-s1, d0 consisting of mineralized fir wood wool bound with white Portland cement and mineral powder. It complies with EN 13168 and EN 13964 standards.

CELENIT ACOUSTIC A2 product range consists of **wood wool panels that achieve superior fire performance.**

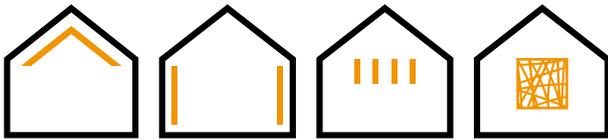
With the addition of mineral powder in the wood-concrete mixture, the panels attain the Euroclass A2-s1, d0, while maintaining aesthetic appearance and the excellent sound-absorption properties.

The best safety features from the attack of flames make these panels also suitable for visible applications in corridors and exit ways in public areas where fire-safety requirements are stricter.

Also available with grey Portland cement.



Applications



False ceilings, wall coverings, baffles, rafts and design solutions

PRODUCTS:

CELENIT ABE/A2 - CELENIT AB/A2

CELENIT AE/A2 - CELENIT A/A2

Technical data

Wood wool width

1 mm - 2 mm

Dimensions

2400x600 - 2000x600 - 1200x600 - 600x600 mm

Thickness

CELENIT ABE/A2 - CELENIT AE/A2

15 - 25 - 35 mm

CELENIT AB/A2 - CELENIT A/A2

15 - 25 - 35 - 50 mm

Reaction to fire

Euroclass A2-s1, d0

Sound absorption

CELENIT ABE/A2

α_w up to 0.95

CELENIT AB/A2

α_w up to 1.00

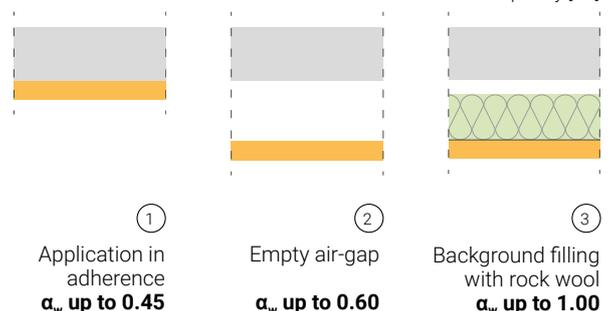
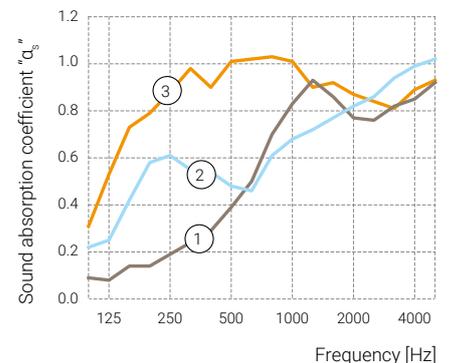
Environmental certifications

ANAB-ICEA

PEFC™ o FSC®

Recycled content

LEED credits attestation





CELENIT ACOUSTIC MINERAL

Range

Composite thermal and acoustic insulation board, consisting of a layer of mineralized fir wood wool bound with white Portland cement coupled to a layer of mineral wool according to the EN 13162 standard. It complies with EN 13168 and EN 13964 standards.

CELENIT MINERAL ACOUSTIC product range consists of composite wood wool panels that reach the **highest sound absorption performance**, even from low to high frequencies, with α_w values up to 1.00. All panels differ in the thickness of the wood wool layer (15/25 mm) and the wood wool width (extra thin 1 mm - thin 2 mm). CELENIT L2ABE25C can be screwed directly onto the ceiling or wall or a hidden structure. The other products can be laid on visible structures or can be provided with rock wool sized smaller than the wood wool panel width in order to screw them onto the hidden structure (metal profiles or wood laths).

Applications



False ceilings, wall coverings

Technical data

Wood wool width
1 mm - 2 mm

Dimensions
1200x600 - 2000x600 mm

Thickness

CELENIT L2ABE15 - CELENIT L2AB15
40(15/25) - 55(15/40) mm

CELENIT L2ABE25 - CELENIT L2AB25
43(25/18) - 50(25/25) - 65(25/40) mm

CELENIT L2ABE35 - CELENIT L2AB35
53(35/18) - 75(35/40) mm

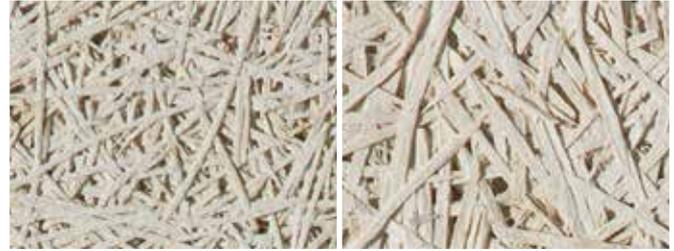
CELENIT L2ABE25C - CELENIT L2AE25C
50(25/25) - 75(25/50) - 100(25/75)
125(25/100) - 150(25/125) mm

CELENIT L3ABE - CELENIT L3AE
25(7/15/3) - 35(10/20/5) - 50(10/35/5) mm

Reaction to fire
Euroclass B-s1, d0

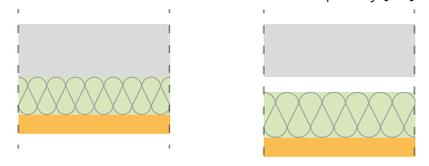
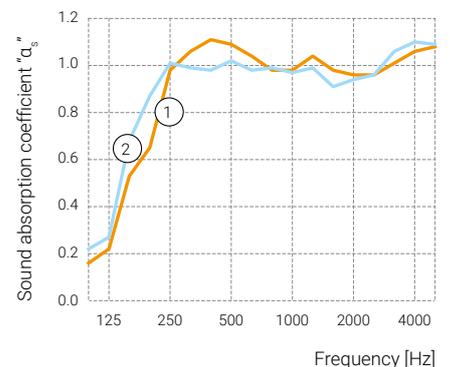
Sound absorption
 α_w up to 1.00

Environmental certifications
PEFC™ or FSC®
Recycled content
LEED credits attestation



PRODUCTS:

- CELENIT L2ABE15 - CELENIT L2AB15
- CELENIT L2ABE25 - CELENIT L2AB25
- CELENIT L2ABE35 - CELENIT L2AB35
- CELENIT L2ABE25C - CELENIT L2AE25C
- CELENIT L3ABE - CELENIT L3AE



①
Application in adherence
 α_w up to 1.00

②
Empty air-gap
 α_w up to 1.00



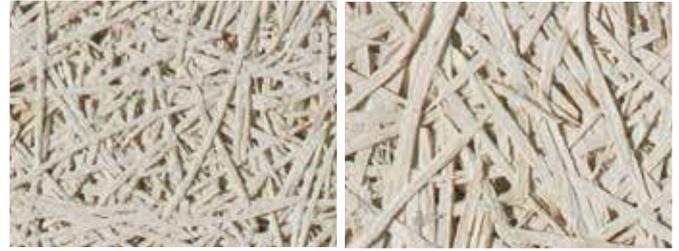
CELENIT ACOUSTIC MINERAL A2

Range

Composite thermal and acoustic insulation board, in Euroclass A2-s1, d0, consisting of a layer of mineralized fir wood wool bound with white Portland cement and mineral powder, coupled to a layer of mineral wool according to the EN 13162 standard. It complies with EN 13168 and EN 13964 standards.

CELENIT ACOUSTIC MINERAL A2 product range consists of the **wood wool panel which achieves superior fire-resistance**. With the addition of mineral powder in the **wood-concrete mixture, the panels attain the Euroclass A2-s1, d0**, while maintaining aesthetic appearance and the excellent sound-absorption properties.

The best safety features from the attack of flames make these panels also suitable for visible applications in corridors and exit ways in public areas where fire-safety requirements are stricter.



Applications



False ceilings, wall coverings

Technical data

Wood wool width
1 mm - 2 mm

Dimensions
1200x600 - 2000x600 mm

Thickness

CELENIT L2ABE15/A2 - CELENIT L2AB15/A2
40(15/25) - 55(15/40) mm

CELENIT L2ABE25/A2 - CELENIT L2AB25/A2
50(25/25) - 65(25/40) mm

CELENIT L2ABE25C/A2 - CELENIT L2AE25C/A2
43(25/18) - 50(25/25) - 65(25/40) mm

CELENIT L3ABE/A2 - CELENIT L3AE/A2
25(7/15/3) - 35(10/20/5) - 50(10/35/5) mm

Reaction to fire
Euroclass A2-s1, d0

Environmental certifications
PEFC™ o FSC®

PRODUCTS:

CELENIT L2ABE15/A2 - CELENIT L2AB15/A2
CELENIT L2ABE25/A2 - CELENIT L2AB25/A2
CELENIT L2ABE25C/A2 - CELENIT L2AE25C/A2
CELENIT L3ABE/A2 - CELENIT L3AE/A2



Coverings with CELENIT boards improve sound absorption characteristics and add aesthetic quality.

Texture

CELENIT offers the possibility to choose between different widths of wood wool to give different aesthetic effects to the covering.



Extra-thin texture
1 mm



Thin texture
2 mm



Standard texture
3 mm

Edges

You have to choose the type of edge depending on the application system and the structure that supports the boards.

CELENIT provides a range of edges that allow correct installation for the desired aesthetic finish.



Straight edges



Shiplap and chamfered edges on 4 sides for visible T profiles



Chamfered edges on short sides
Chamfered edges on long sides
Chamfered edges on 4 sides



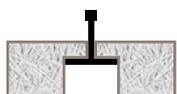
Chamfered edges on 4 sides for hidden T profiles with removable panels



Straight edges for visible T profiles



Chamfered edges on 4 sides for hidden T profiles



Shiplap edges on 4 sides for visible T profiles



Longitudinal groove



Colors

The right choice of colors is essential for a good aesthetical result.

CELENIT boards can be natural or painted. Natural panels may present a non-uniform color due to the natural raw materials and production process. This characteristic is more evident for grey Portland cement panels. The color tends to be more uniform over time. If a uniform color is required, the boards must be painted.

CELENIT acoustic panels are painted with standard acrylic colors. Upon request, CELENIT also provides panels painted with liquid silicate potassium compound binders and inorganic pigments derived from natural products, absolutely free of solvents or substances harmful to health. In addition to the **CELENIT** standard color range, it is possible to choose from the majority of RAL or NCS references.

NATURAL COLOR



White cement. It deeply characterizes the aesthetic qualities of the panels; it highlights the natural wood sheen taking on an ivory shade. We recommend light colors.



Grey cement. It is the alternative to white Portland cement. It can be used in its natural state with shades of grey or painted with dark colors.

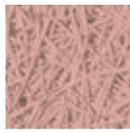
STANDARD COLORS – acrylic



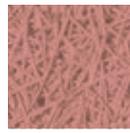
Light ochre
Cod. S08/15



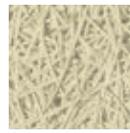
Light pink
Cod. S10/15



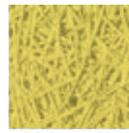
Medium pink
Cod. S09/15



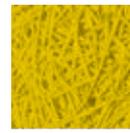
Dark pink
Cod. S11/15



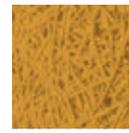
Cream
Cod. S13/15



Light yellow
Cod. S12/14



Medium yellow
Cod. S06/14



Yellow ochre
Cod. S07/15



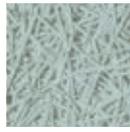
Orange
Cod. S04/14



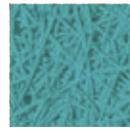
Light brown
Cod. S11/14



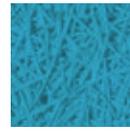
Dark brown
Cod. S07/14



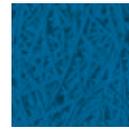
Sky blue
Cod. S06/15



Light azure
Cod. S15/15



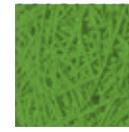
Azure
Cod. S01/15



Dark azure
Cod. S14/15



Sea blue
Cod. S02/15



Light green
Cod. S02/14



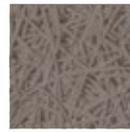
White
Cod. S05/15



Light grey
Cod. S12/15



Medium grey
Cod. S16/15



Tobacco
Cod. S17/15



Anthracite
Cod. S10/14



Black
Cod. S08/14

BIOLOGICAL COLORS - liquid potassium silicate



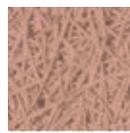
White
Cod. B30093



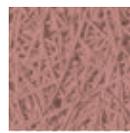
Yellow
Cod. B30017



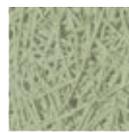
Siena
Cod. B30016



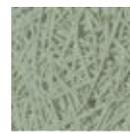
Pink
Cod. B30015



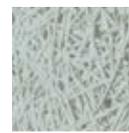
Powder
Cod. B30014



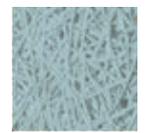
Light green
Cod. B30012



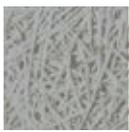
Green
Cod. B30011



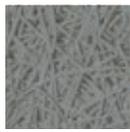
Sky blue
Cod. B30009



Azure
Cod. B30008



Light grey
Cod. B30007



Grey
Cod. B30006

The brand natureplus refers to natural liquid potassium silicate colors.



The finish may have slight differences from the colors of the reference table of RAL or NCS codes because the base of wood wool panels is not white. For any requests, please contact the technical office: techsupport@celenit.com

The colors reproduced here, although close to the real ones, are purely indicative.