CEWOOD PANELS

CEWOOD Panels are a durable and nature friendly material made of top-quality wood wool and cement. By combining low fire reaction with good acoustic and heat inertia properties, the product offers the widest variety of design solutions.

Application:

Acoustic panels are widely used in public and residential building interior design, it is eco-friendly and harmless to health. Owing to its natural composition and outstanding properties they are widely used in premises with increased acoustic load, where sound reverberation (reflection) and noise absorption are of essence:

- Offices, public spaces and private homes
- Schools, kindergartens, universities
- Sport facilities, swimming pools, spa
- Music halls, theaters, cinemas
- Recording studios, TV and radio stations
- Industrial premises, warehouses, parking lots etc.

0.5 mm wood wool

1.0 mm wood wool

1.5 mm wood wool

3.0 mm wood wool

Technical specification

Wood wool width	0,5 mm; 1,0 mm; 1,5 mm; 3,0 mm
CEWOOD panel thickness	15 mm; 25 mm; 35 mm; 50 mm
Size (standard panel)	600x600 mm; 1200x600 mm; 2400x600 mm
Size (fo suspended ceilings)	595x595 mm; 1195x595 mm
Available colours	Natural, natural painted, white, black, grey and any shade in RAL or NCS system upon request
Available edge profiles	P0; P5; P0G; P5G; other edge profiles upon request
Reaction to fire (EN 13501)	B-s1, d0; A2-s1, d0

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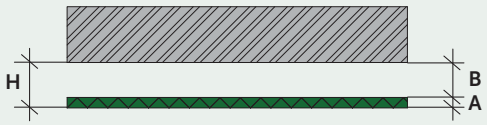
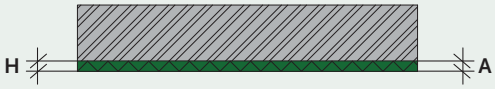
CEWOOD PANELS

Sound absorption values

CEWOOD panels offer effective sound absorption and help reduce reverberation (reflection) time in spaces such as offices, schools, and residential interiors. They are a practical solution for improving acoustic comfort in environments with moderate noise levels, and their lightweight, easy-to-install design allows for flexible use in both wall and ceiling applications.



With air gap



Without air gap (direct fixing)

Acoustic characteristics without additional insulation

Description	α_w	Class	Height, H (mm)	CEWOOD panel, A (mm)	Air gap, B (mm)	Frequency					
						125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
CEWOOD Panel 25 mm, air gap 175 mm	**0,60**	**C**	200	25	175	0,20	0,45	0,60	0,50	0,60	0,80
CEWOOD Panel 25 mm, air gap 100 mm	**0,55**	**D**	125	25	100	0,15	0,35	0,65	0,55	0,55	0,80
CEWOOD A2 Panel 25 mm, air gap 175 mm	**0,50**	**D**	200	25	175	0,20	0,40	0,50	0,40	0,50	0,70
CEWOOD Panel 25 mm air gap 0 mm	**0,40**	**D**	25	25	0	0,05	0,20	0,30	0,55	0,80	0,70
CEWOOD A2 Panel 25 mm, air gap 0 mm	**0,35**	**D**	25	25	0	0,05	0,15	0,30	0,55	0,90	0,75

A2 – reaction to fire class according to EN 13501-1

The listed values reflect CEWOOD Panels used without additional insulation – directly fixed or with an air gap. This setup typically achieves Class C (moderate sound absorption) or Class D (lower sound absorption), suitable for areas with medium to low acoustic requirements, such as offices, hallways, or interiors where design, visual appeal, or structural considerations take priority over maximum acoustic performance. To reach Class A performance ($\alpha w \geq 0.90$), additional acoustic materials are required; see "CEWOOD Plus panels specification" or "CEWOOD Fleece panels specification" technical specifications for recommended solutions.

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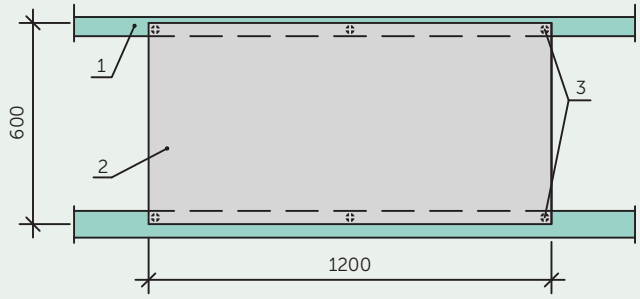
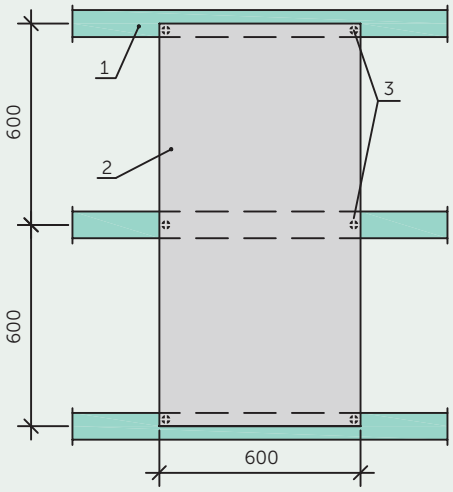
CEWOOD PANELS FASTENED WITH SCREWS

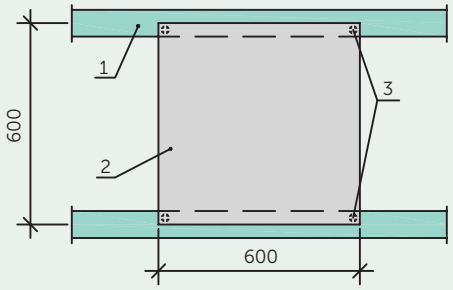
Fastening of 25 mm and 35 mm thick CEWOOD Panels with screws onto metal CD assembly profiles or wooden assembly laths.



Panel 1200x600 mm fastened with 6 screws longitudinally



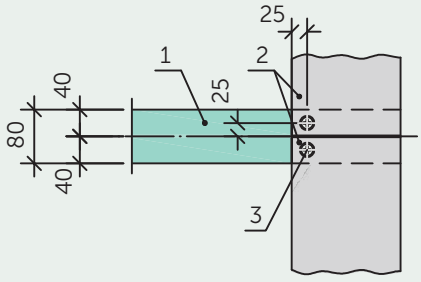
Panel 1200x600 mm fastened with 6 screws



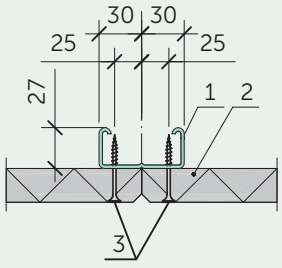
Panel 600x600 mm with 4 screws

Screw locations

The connection seam between panels must always be formed under the frame assembly element.



Mounted onto wooden lath frame



Mounted onto CD metal profile frame

Explanation of numbering

1. Frame assembly element (CD profile or wooden lath)
2. CEWOOD Panels
3. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head Ø ≥9 mm

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SCREW MOUNTED CEILINGS

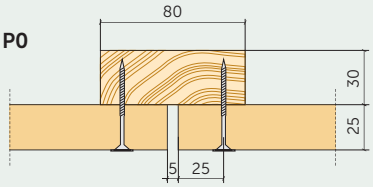
Screw mounted ceiling application samples

Kitchen

Eyewear store

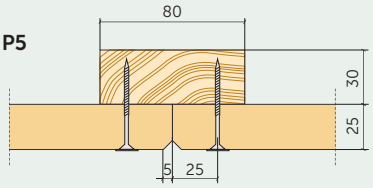
Profiles

P0



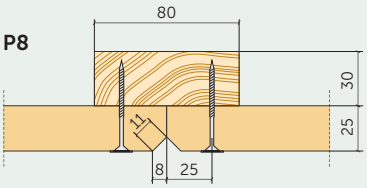
Panel with square edges

P5



Panel with 5 mm chamfer

P8



Panel with 8 mm chamfer

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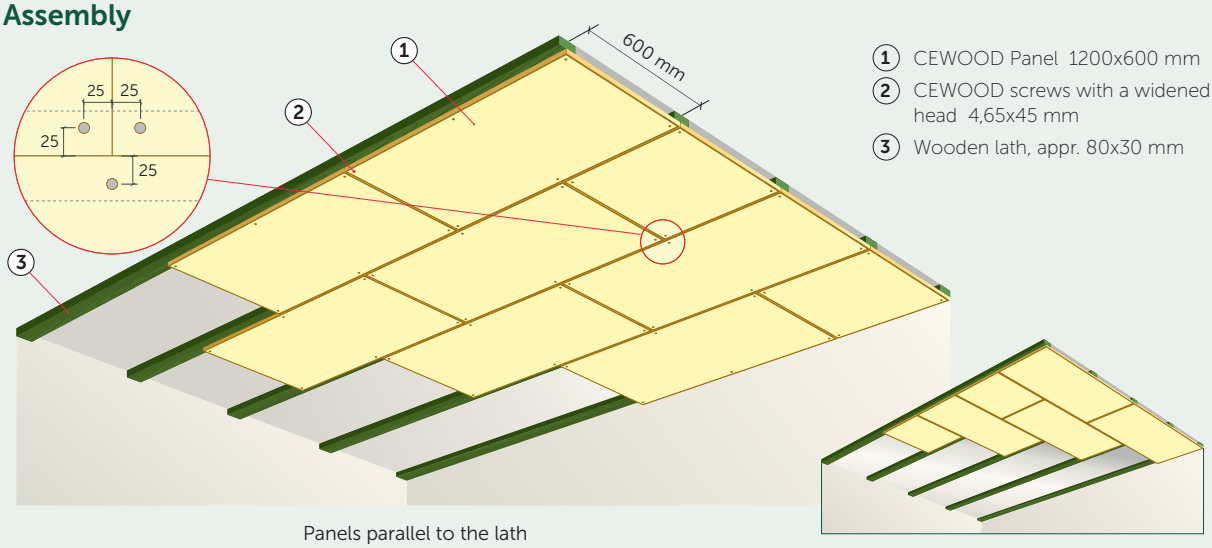
SCREW MOUNTED CEILINGS

Assembly



1. CEWOOD Panel 1200x600 mm
2. CEWOOD screws with a widened head 4,65x45 mm
3. Wooden lath, appr. 80x30 mm

Panels parallel to the lath

Panels perpendicular to the lath

Important

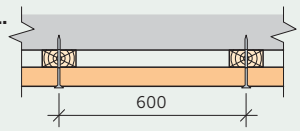
The panels can be fixed to wooden laths (80x30 mm) and metal (CD) profiles or other construction providing strength and load-bearing capacity.

CEWOOD screws size 4,65x45 mm or appropriate screws with widened head (self-cutting screws for CD profiles, wood screws for wooden constructions).

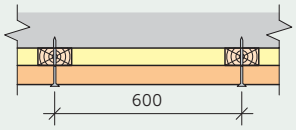
The construction steps are 600 mm, according to the panel width. The mounting should be carried out starting from the middle of room, gradually moving to the sides.

The screw mounting steps are >600 mm. In the corners the mounting should be 25 mm from the side of the panel.

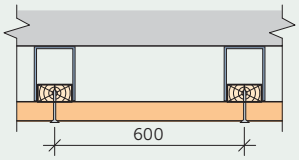
Variants of assembly

1. 

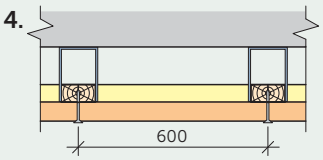
Wooden lath (appr. 80x30 mm) or metal (CD) profile is constructed on the ceiling or wall, to which the CEWOOD panels are assembled.

2. 

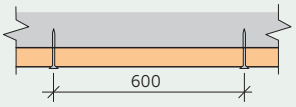
2nd variant is the same as 1st, but a layer of mineral wool is inserted between the laths above the panels.

3. 

Wooden lath or metal (CD) profile is attached to the ceiling with the „quick" suspension, then the CEWOOD Panels are assembled.

4. 

4th variant is the same as 3rd, but a layer of mineral wool is inserted over the CEWOOD Panels.

5. 

The panels are assembled to the ceiling or walls. Assembling to concrete, stone or wood is done with appropriate screws with widened head.

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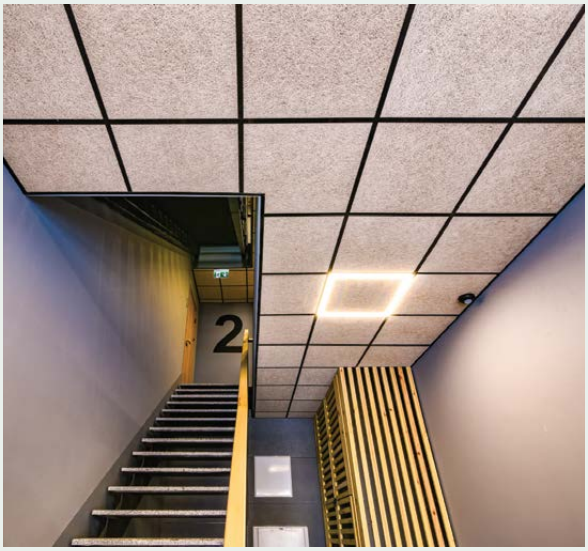
SUSPENDED CEILING SYSTEMS, T24

Suspended ceiling system application samples

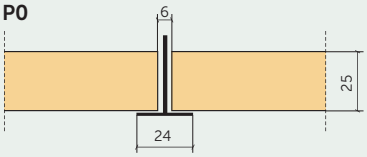
University



Apartment building

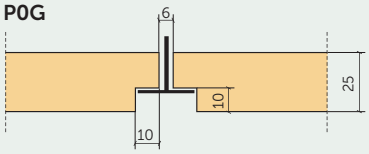
Profiles

P0



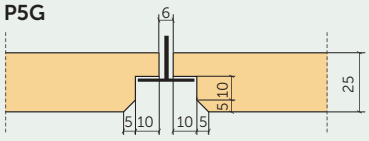
Standart T24 ceiling profile

P0G



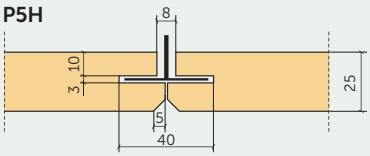
Immersed T24 ceiling profile

P5G



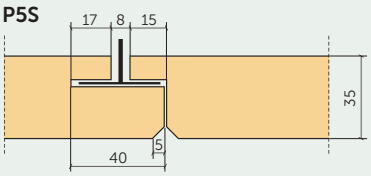
Immersed T24 ceiling profile with 5 mm chamfer

P5H



Hidden suspended ceiling profile with 5 mm chamfer

P5S



Suspended ceiling profile with overhang and 5 mm chamfer

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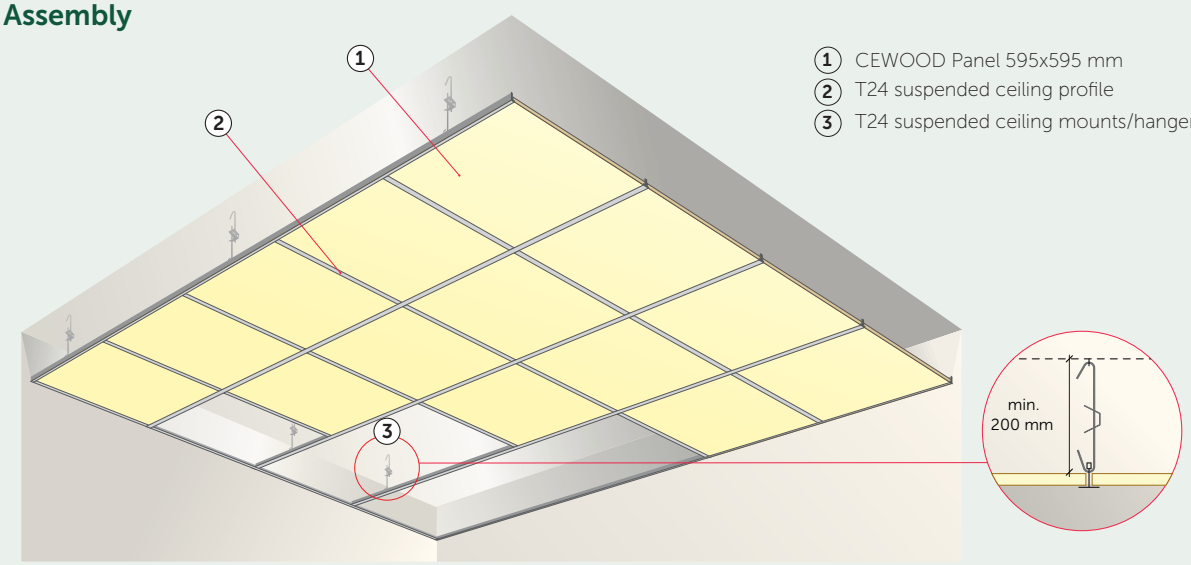
SUSPENDED CEILING SYSTEMS, T24

Assembly



1. CEWOOD Panel 595x595 mm
2. T24 suspended ceiling profile
3. T24 suspended ceiling mounts/hangers

Important

The assembly includes setting up the supporting T24 framework and mounting the panels on to it.

Hitching of the panels should be carried out according to the specifications of the producer of the ceiling system, and in compliance with the ceiling assembly standart EN 13964:2014.

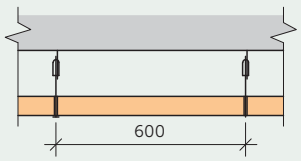
The number and positions of the mounts depend on the panel's weight and the bearing capacity of the construction. For example, the density of CEWOOD 25 mm panels with a 1,0 mm wide wool is 10,5 kg/m^2.

A special attention should be payed to choosing the right size of panels, according to the construction's dimensions. For a 600x600 mm construction the panel size is 595x595 mm, but for a 1200x600 mm construction the size of panel is 1195x595 mm.

If mineral wool is attached over CEWOOD Panels, acoustic absorption level and thermal inertia is significantly increased. More detailed information concerning absorption levels and technical data is available on www.cewood.com in Downloads section.

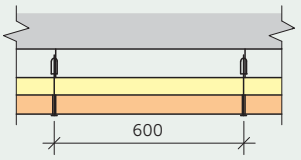
Types of mounting

1.



A suspended ceiling T24 system is attached to the ceiling, then the panels are mounted to it.

2.



2nd type is similar to the 1st, but a layer of mineral wool is inserted over the panels.

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