

## CEWOOD FLEECE PANELS

CEWOOD FLEECE panels are a durable and nature friendly material made of top-quality wood wool and cement. In addition to these core components, the panel features a thin layer of non-woven acoustic fleece on the back. This innovative addition significantly enhances sound absorption without increasing panel thickness. CEWOOD FLEECE panels, in addition to improved acoustic performance, also increase efficiency of handling, storage, and installation.

### Application:

CEWOOD FLEECE panels can be applied in public and residential building interiors where high acoustic performance is required. Acoustic fleece on the back improves sound absorption without increasing panel thickness, making the product suitable for spaces with high acoustic loads where controlling sound reverberation and noise is important.:

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



1.0 mm wood wool

### Technical specification

Wood wool width	1.0 mm; other wood wool upon request
Panel thickness	15 mm; 25 mm; 35 mm
Size (standard panel)	1200x600 mm; 600x600 mm; other sizes upon request
Size (for suspended ceilings)	595x595 mm; 1195x595 mm
Available colours	natural painted, white, black, grey and any shade in RAL or NCS system upon request
Available edge profiles	P0; P5; other edge profiles upon request
Reaction to fire (EN 13501)	B-s1, d0; A2-s1, d0

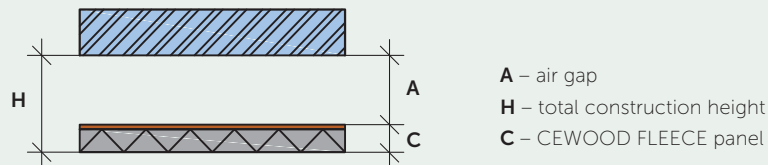
#### Acoustic fleece

Thickness	0.4 mm
Weight	115 g/m <sup>2</sup>
Fire reaction class	A2-s1, d0

## CEWOOD FLEECE PANELS

### Sound absorption values

CEWOOD FLEECE panels can achieve the highest sound absorption class (Class A,  $\alpha_w \geq 0.90$ ), when specific installation conditions are met. The acoustic fleece backing improves acoustics in various private and public spaces and helps lower noise levels in technical environments. They are a practical solution for improving acoustic comfort, with their lightweight, easy-to-install design allowing flexible use in both wall and ceiling applications across a wide range of environments.



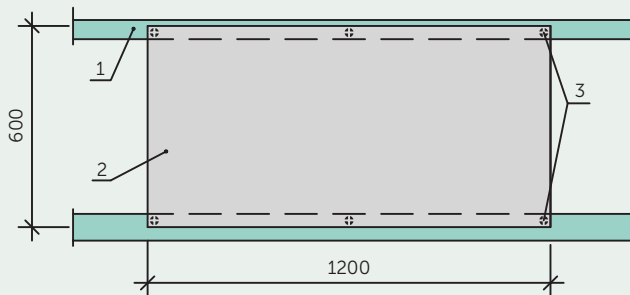
### Acoustic characteristics

Description	$\alpha_w$	Class	Height, H (mm)	CEWOOD Fleece, C (mm)	Air gap, A (mm)	Frequency					
						125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
CEWOOD FLEECE 35 mm, air gap 100 mm	<b>0,95</b>	<b>A</b>	135	35	100	0,35	0,65	0,95	1,00	0,95	0,90
CEWOOD FLEECE 35 mm, air gap 165 mm	<b>0,95</b>	<b>A</b>	200	35	165	0,45	0,75	0,95	0,95	0,95	0,90
CEWOOD FLEECE 35 mm, A2, air gap 100 mm	<b>0,95</b>	<b>A</b>	135	35	100	0,35	0,65	1,00	1,00	0,95	0,95
CEWOOD FLEECE 35 mm, A2, air gap 165 mm	<b>0,95</b>	<b>A</b>	200	35	165	0,45	0,75	1,00	0,95	0,95	0,95
CEWOOD FLEECE 25 mm, air gap 100 mm	<b>0,90</b>	<b>A</b>	125	25	100	0,25	0,60	0,95	0,95	0,90	0,90
CEWOOD FLEECE 25 mm, air gap 175 mm	<b>0,90</b>	<b>A</b>	200	25	175	0,35	0,75	0,95	0,85	0,90	0,95
CEWOOD FLEECE 25 mm, A2, air gap 175 mm	<b>0,90</b>	<b>A</b>	200	25	175	0,45	0,70	0,95	0,85	0,90	0,85
CEWOOD FLEECE 25 mm, A2, air gap 100 mm	<b>0,85</b>	<b>B</b>	125	25	100	0,30	0,55	0,90	0,95	0,90	0,85
CEWOOD FLEECE 15 mm, air gap 100 mm	<b>0,80</b>	<b>B</b>	115	15	100	0,25	0,50	0,85	0,85	0,80	0,85
CEWOOD FLEECE 15 mm, A2, air gap 100 mm	<b>0,80</b>	<b>B</b>	115	15	100	0,25	0,50	0,85	0,90	0,80	0,85

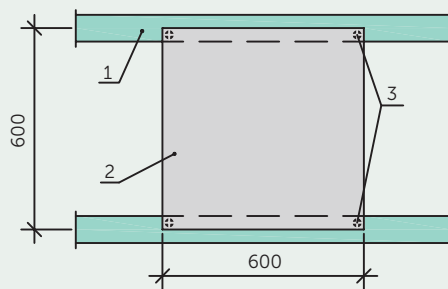
A2 – reaction to fire class according to EN 13501-1

## CEWOOD FLEECE PANELS FASTENED WITH SCREWS

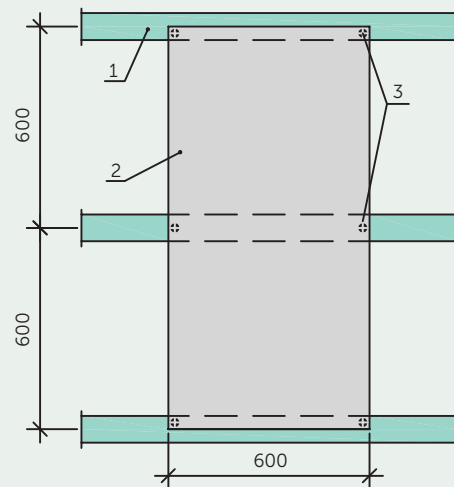
Fastening of 25 mm and 35 mm thick CEWOOD FLEECE panels with screws onto metal CD assembly profiles or wooden assembly laths.



Panel 1200x600 mm fastened with 6 screws longitudinally



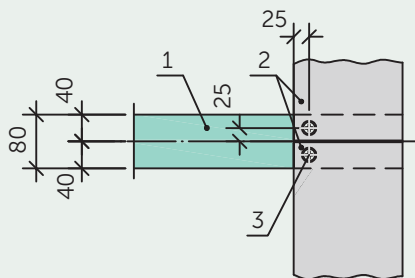
Panel 600x600 mm with 4 screws



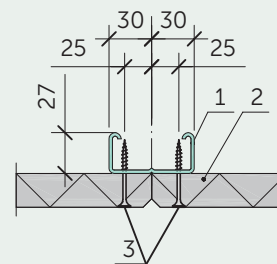
Panel 1200x600 mm fastened with 6 screws

### 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

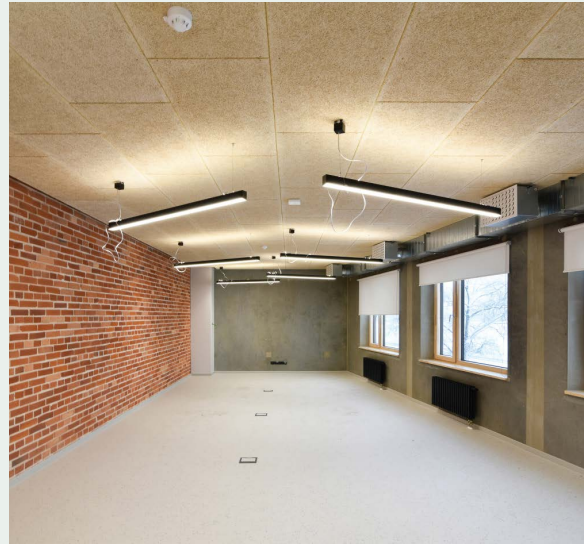
1. Frame assembly element (CD profile or wooden lath)
2. CEWOOD FLEECE panels
3. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head  $\varnothing \geq 9$  mm

## SCREW MOUNTED CEILINGS

### Screw mounted ceiling application samples

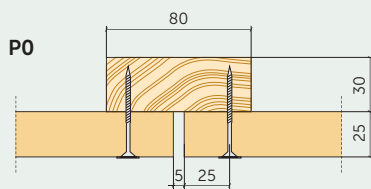


Kitchen

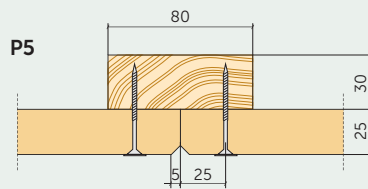


Office

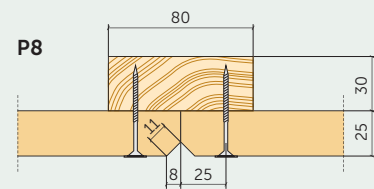
### Profiles



Panel with square edges



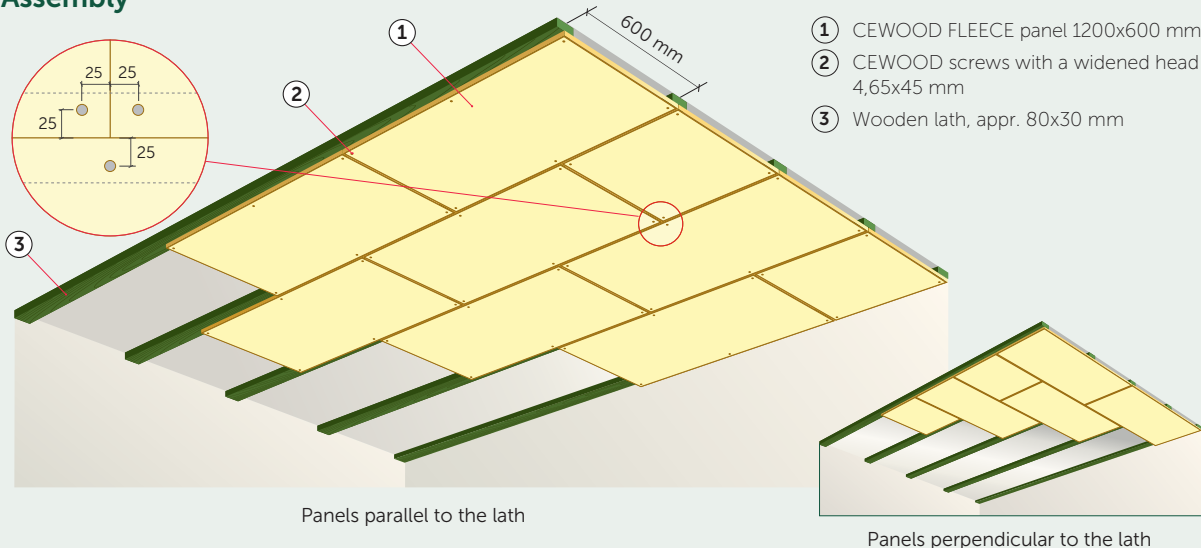
Panel with 5 mm chamfer



Panel with 8 mm chamfer

## SCREW MOUNTED CEILINGS

### Assembly



### Important

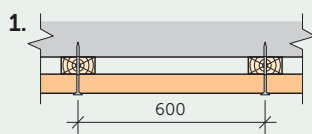
The panels can be fixed to wooden laths (80x30 mm) and metal (CD) profiles or other construction providing strength and load-bearing capacity.

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

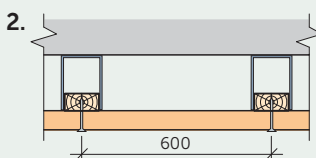
The construction steps are 600 mm, according to the panel width. The mounting should be carried out starting from the middle of room, gradually moving to the sides.

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

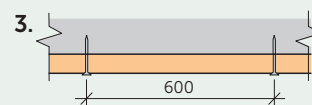
### Variants of assembly



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



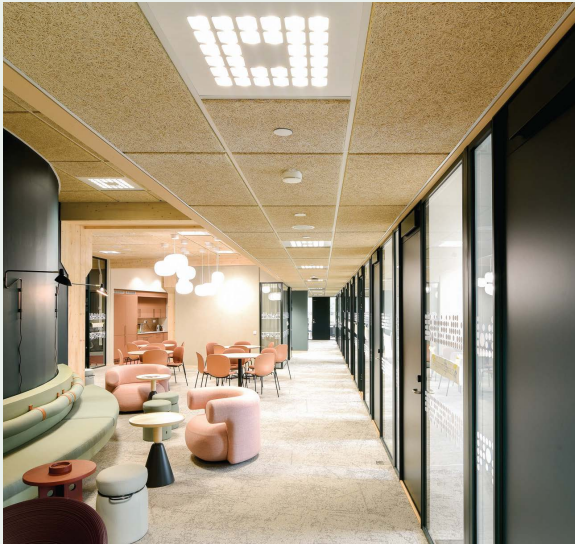
2. Wooden lath or metal (CD) profile is attached to the ceiling with the „quick” suspension, then the CEWOOD FLEECE panels are assembled.



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

**SUSPENDED CEILING SYSTEMS, T24**

**Suspended ceiling system application samples**

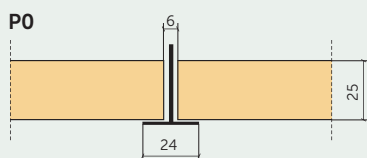


University

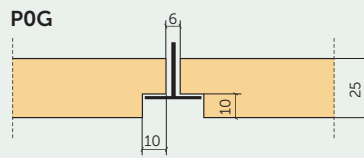


Apartment building

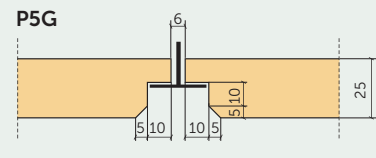
**Profiles**



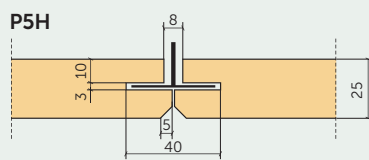
Standart T24 ceiling profile



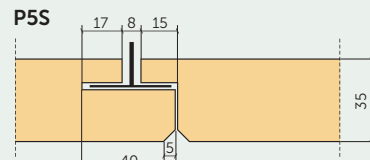
Immersed T24 ceiling profile



Immersed T24 ceiling profile with 5 mm chamfer



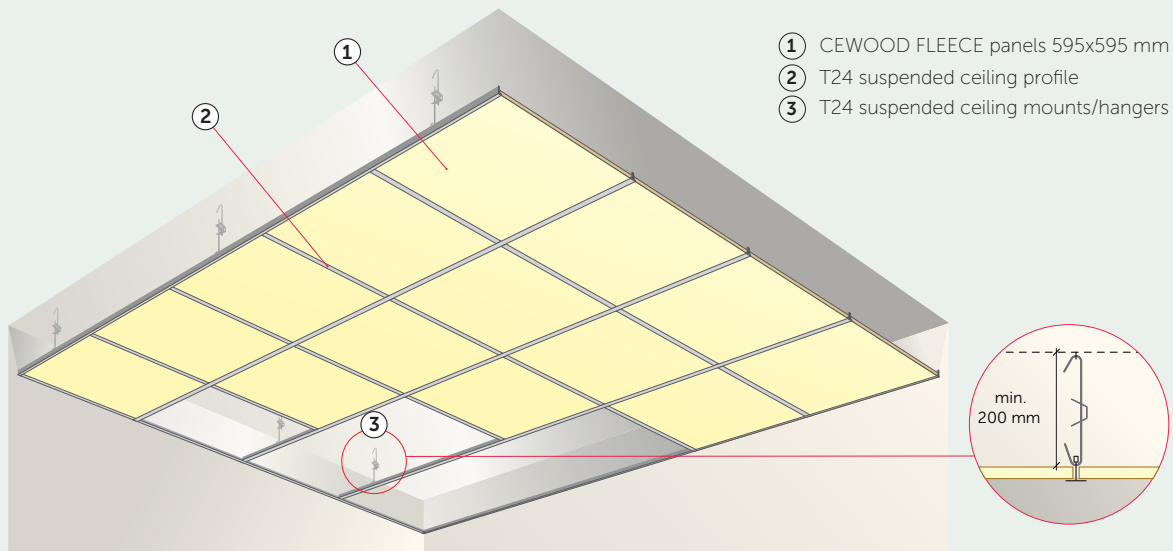
Hidden suspended ceiling profile with 5 mm chamfer



Suspended ceiling profile with overhang and 5 mm chamfer

## SUSPENDED CEILING SYSTEMS, T24

### Assembly



### Important

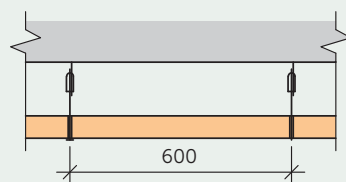
The assembly includes setting up the supporting T24 framework and mounting the panels on to it.

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<sup>2</sup>.

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.

### Mounting



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