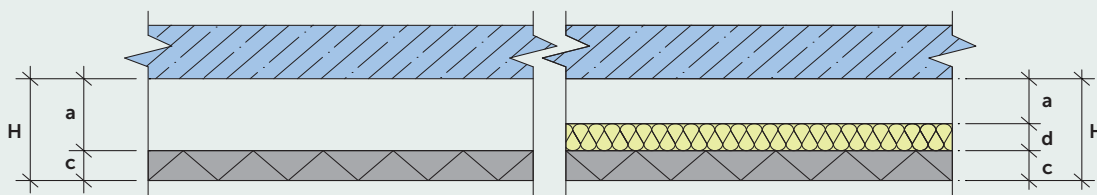


## ACOUSTICS

CEWOOD Acoustic panels are a natural product made in Latvia. Panels are friendly both to environment and human health, they're made from premium quality wood wool by adding white cement and water.

CEWOOD panels are comfortable and resistant. They help to maintain a pleasant microclimate characteristic to wood in the facilities.

Practical sound absorption coefficient in the  $\alpha_p$  octave band according to standard EN ISO 354, Extended sound absorption coefficient  $\alpha_w$  and sound absorption class according to standard EN ISO 11654:1997



H – height; a – air gap; d – mineral wool; c – CEWOOD panel

A particularly effective usage of the panels is sound absorbing structures in large rooms for reducing the space's sound reverberation time and improving the working environment. CEWOOD panels can be used for making plate-shaped screens with a pronounced absorbing nature for reducing the noise emission of equipment in the range of high-tone frequencies. An even more effective acoustic solution is to create three-dimensional finishing elements, such as pyramids, which exhibit a much higher absorption coefficient value, thanks to sound diffraction around the edges.

Panels, made from 3 mm wide wood wool and with higher density, better ensure the sound absorption at the low frequencies. In turn, panels made from 1 mm and 1.5 mm wide wood wool have better absorption properties in the high frequency range. The optimal sound absorption solution can be achieved by combining CEWOOD panels with a mineral wool insulation layer.



**ACOUSTICS**
**CEWOOD panels on lath construction**

Description	Total height H, mm	Air gap a, mm	Mineral wool d, mm	CEWOOD panel c, mm	Frequencies, Hz						Absorption coefficient, $\alpha_w$	Absorption class
					125	250	500	1000	2000	4000		
35 mm CEWOOD panel, 30 mm mineral wool, 70 mm air gap	135	70	30	35	0,35	0,70	1,00	0,90	0,85	0,90	<b>0,90</b>	<b>A</b>
35 mm CEWOOD panel, without mineral wool, 100 mm air gap	135	100	0	35	0,15	0,35	0,70	0,70	0,70	0,85	<b>0,65</b>	<b>C</b>
25 mm A2 CEWOOD panel, 30 mm mineral wool, 70 mm air gap	125	70	30	25	0,35	0,70	1,00	0,90	0,80	0,90	<b>0,90</b>	<b>A</b>
25 mm A2 CEWOOD panel, without mineral wool, 100 mm air gap	125	100	0	25	0,15	0,35	0,65	0,60	0,65	0,80	<b>0,60</b>	<b>C</b>
25 mm CEWOOD panel, 30 mm mineral wool, 70 mm air gap	125	70	30	25	0,35	0,70	1,00	0,90	0,85	0,90	<b>0,90</b>	<b>A</b>
25 mm CEWOOD panel, without mineral wool, 100 mm air gap	125	100	0	25	0,15	0,30	0,65	0,60	0,65	0,80	<b>0,60</b>	<b>C</b>

**CEWOOD panels in suspended ceiling systems (T-24 profiles)**

Description	Total height H, mm	Air gap a, mm	Mineral wool d, mm	CEWOOD panel c, mm	Frequencies, Hz						Absorption coefficient, $\alpha_w$	Absorption class
					125	250	500	1000	2000	4000		
35 mm CEWOOD panel, 50 mm mineral wool, 150 mm air gap	235	150	50	35	0,55	0,85	0,95	0,85	0,85	0,95	<b>0,90</b>	<b>A</b>
25 mm CEWOOD panel, 50 mm mineral wool, 150 mm air gap	225	150	50	25	0,55	0,80	0,95	0,90	0,85	0,95	<b>0,90</b>	<b>A</b>
15 mm CEWOOD panel, 50 mm mineral wool, 150 mm air gap	215	150	50	15	0,50	0,80	0,95	0,90	0,85	0,90	<b>0,90</b>	<b>A</b>
15 mm CEWOOD panel, 20 mm mineral wool, 180 mm air gap	215	180	20	15	0,35	0,70	0,90	0,90	0,85	0,90	<b>0,90</b>	<b>B</b>
25 mm CEWOOD panel, 20 mm mineral wool, 180 mm air gap	225	180	20	25	0,35	0,70	0,90	0,90	0,85	0,90	<b>0,90</b>	<b>A</b>
35 mm CEWOOD panel, 20 mm mineral wool, 180 mm air gap	235	180	20	35	0,45	0,70	0,90	0,85	0,85	1,00	<b>0,90</b>	<b>A</b>
35 mm CEWOOD panel, without mineral wool, 200 mm air gap	235	200	0	35	0,30	0,50	0,60	0,60	0,75	0,90	<b>0,65</b>	<b>C</b>
25 mm CEWOOD panel, without mineral wool, 200 mm air gap	225	200	0	25	0,25	0,45	0,55	0,55	0,70	0,85	<b>0,60</b>	<b>C</b>
15 mm CEWOOD panel, without mineral wool, 200 mm air gap	215	200	0	15	0,20	0,45	0,55	0,55	0,65	0,80	<b>0,60</b>	<b>D</b>