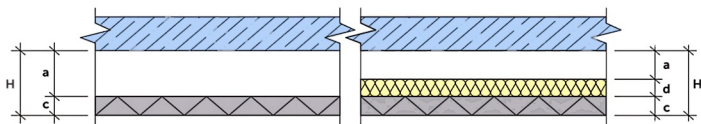


ACOUSTICS

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 α_p octave band according to standart EN ISO 354, Extended sound absorption coefficient α_w and sound absorption class according to standart EN ISO 11654:1997



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

H mm	a mm	d mm	c mm	120 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Absorption coefficient α_w	Absorption class
85	60	0	25	0.10	0.30	0.55	0.60	0.50	0.60	0.55	D
225	200	0	25	0.25	0.50	0.55	0.50	0.60	0.65	0.55	D
250	200	0	50	0.40	0.60	0.55	0.65	0.70	0.70	0.65	C
85	10	50*	25	0.40	0.79	0.78	0.76	0.73	0.70	0.80	B
225	100	100*	25	0.79	0.72	0.73	0.81	0.78	0.72	0.80	B
225	150	50*	25	0.52	0.81	0.74	0.87	0.77	0.73	0.80	B
55	0	30**	25	0.25	0.55	1.00	0.95	0.85	0.85	0.85	B
75	0	50**	25	0.35	0.70	1.00	0.95	0.85	0.95	0.90	A
75	50	0	25	0.10	0.25	0.55	0.65	0.55	0.65	0.50	D
65	0	50**	15	0.30	0.65	1.00	0.85	0.75	0.80	0.85	B
65	50	0	15	0.10	0.20	0.50	0.65	0.55	0.65	0.50	D

* mineral wool, approx. 30 kg/m³; ** mineral wool, approx. 90 kg/m³.

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 15 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.