

CEWOOD PLUS PANELS TECHNICAL SPECIFICATIONS

CEWOOD PLUS panels for acoustic use are manufactured from 1.0 mm wood wool and white Portland cement, combined with mineral wool. This environmentally friendly natural material ensures excellent sound absorption, good thermal insulation and improved thermal inertia, while providing easy handling.

Application:

- For ceiling and wall covering in offices, administration buildings, schools, kindergartens, events halls, sports halls, swimming pools and recreation facilities, farms, etc.
- Suitable for use in unheated premises, space under the roof, basements, underground garage, etc.



Technical data - 15 mm Panels + Mineral Wool

CEWOOD code		CW-PLUS-W15S	CW-A2-PLUS-W15S
Thickness	mm	15	15
Wood wool width	mm	1.0	1.0
Length	mm	1200	1200
Width	mm	600	600
Weight	kg/m ²	7.0	12.5
Wood wool density	kg/m ³	470	830
Thermal resistance (Ro)	m ² ·K/W	0.20	0.15
Thermal conductivity (λD)	W/m·K	0.069	0.087
Minimum level of tensile strength:			
• Bend (EN 12089)	kPa	1700	1700
• Compression (EN 826)	kPa	300	500
Chloride content (EN 13168)	%	0.06	0.06
Reaction to fire (EN 13501-1:2007)		B-s1, d0	A2-s1, d0

Mineral wool					
Thickness	mm	20	30	40	50
Thickness panel + mineral wool	mm	35	45	55	65
Length	mm	1200			
Width	mm	600			
Thermal resistance (Ro)	m ² ·K/W	0.55	0.85	1.10	1.40
Thermal conductivity (λD)	W/m·K	0.035			
Reaction to fire (EN 13501-1:2007)		A2-s1, d0			

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Technical data - 25 mm Panels + Mineral Wool

CEWOOD code		CW-PLUS-W25S	CW-A2-PLUS-W25S
Thickness	mm	25	25
Wood wool width	mm	1.0	1.0
Length	mm	1200	1200
Width	mm	600	600
Weight	kg/m ²	10.5	14.5
Wood wool Density	kg/m ³	420	580
Thermal resistance (Ro)	m ² ·K/W	0.35	0.25
Thermal conductivity (λD)	W/m·K	0.069	0.087
Minimum level of tensile strength:			
• Bend (EN 12089)	kPa	1300	1300
• Compression (EN 826)	kPa	300	500
Chloride content (EN 13168)	%	0.06	0.06
Reaction to fire (EN 13501-1:2007)		B-s1, d0	A2-s1, d0

Mineral wool						
Thickness	mm	20	30	40	50	100
Thickness panel + mineral wool	mm	45	55	65	75	125
Length	mm	1200				
Width	mm	600				
Thermal resistance (Ro)	m ² ·K/W	0.55	0.85	1.10	1.40	2.75
Thermal conductivity (λD)	W/m·K	0.035				
Reaction to fire (EN 13501-1:2007)		A2-s1, d0				

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Technical data - 35 mm Panels + Mineral Wool

CEWOOD code		CW-PLUS-W35S	CW-A2-PLUS-W35S
Thickness	mm	35	35
Wood wool width	mm	1.0	1.0
Length	mm	1200	1200
Width	mm	600	600
Weight	kg/m ²	14.5	20.5
Wood wool Density	kg/m ³	410	585
Thermal resistance (Ro)	m ² ·K/W	0.50	N/A
Thermal conductivity (λD)	W/m·K	0.069	0.087
Minimum level of tensile strength:			
• Bend (EN 12089)	kPa	1000	1000
• Compression (EN 826)	kPa	200	200
Chloride content (EN 13168)	%	0.06	0.06
Reaction to fire (EN 13501-1:2007)		B-s1, d0	A2-s1, d0

Mineral wool						
Thickness	mm	20	30	40	50	100
Thickness panel + mineral wool	mm	55	65	75	85	135
Length	mm	1200				
Width	mm	600				
Thermal resistance (Ro)	m ² ·K/W	0.55	0.85	1.10	1.40	2.75
Thermal conductivity (λD)	W/m·K	0.035				
Reaction to fire (EN 13501-1:2007)		A2-s1, d0				

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SAKRET BK Foam

Storage period	months	9
Tack free time	min	10–12
Cure time	min	120
Adhesion to EPS	N/mm ²	0.033
Adhesion to XPS	N/mm ²	0.039
Density	kg/m ³	20–25
Fire class of cured foam		B2 (DIN 4102-1)
Volume increase		5%
Flash point of cured foam	°C	400
Tensile strength	N/cm ²	10 (Bs 5241)
Compressive strength at 10% deformation	N/cm ²	4 (DIN 53421)
Point thermal conductivity	W/mK	0.03
Sound reduction index		RST, w=60dB
Temperature resistance of cured foam	°C	long-term: -50 to +90
	°C	short-term: -65 to +130
Color		Graphite Grey

Loading capacity

		15+20MW	15+30MW	15+40MW	15+50MW	25+20MW	25+30MW	25+40MW
pcs per pallet	1200x600	30	23	19	16	23	19	16
m ² of panels per pallet		21,6	16,56	13,68	11,52	16,56	13,68	11,52
m ² of panels per 24 t truck	(B-s1,d0)	1900,8	1457,3	1203,8	1013,8	1457,3	1203,9	1013,8
m ² of panels per 24 t truck	(A2-s1,d0)	1468,8	1357,9			1258,6		

		25+50MW	25+100MW	35+20MW	35+30MW	35+40MW	35+50MW	35+100MW
pcs per pallet	1200x600	14	8	19	16	14	12	7
m ² of panels per pallet		10,08	5,76	13,68	11,52	10,08	8,64	5,04
m ² of panels per 24 t truck	(B-s1,d0)	887,0	506,9	1203,9	1013,8	887,0	760,3	443,5
m ² of panels per 24 t truck	(A2-s1,d0)			985,0	944,6			

Colors and profiles: CEWOOD PLUS panels can be supplied natural, white painted or painted in any RAL color upon customer request. Panels can be profiled as well.

General packaging information: CEWOOD PLUS panels are placed on 1200x600 mm wooden pallets, with cardboard on top and corners, plastic film around pallets.