DATA SHEET – Sound dumping multilayer panels

A sound damping panel is composed of two sheets of deciduous (birch and alder wood) water-resistant (phenol-formaldehyde resin) plywood, between which is inserted sound and vibration damping material (damping lining or rubber-cork). In case of improved surface, one of plywood sheets is additionally covered with a phenol film protecting against moist and mechanical resistance, abrasion resistance of the surface.

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— sound damping panel are produced based on phenol-formaldehyde resin; for use in exterior conditions (according to EN 636) meeting the requirements of class 3 bonded to DIN EN 314-2

Classification of sound damping panel according to the surface:

- with an unfinished, raw surface
- with a surface protected with a phenolic film, on one-side
- with a surface protected with a phenolic film, on both sides*
- * with such surface protection, the panels meet the requirements for materials used in railway. R10 requirements according to PN-EN 45545-2: 2013 for the hazard level HL1, HL2, HL3.

The thickness and tolerances

Sound damping panel are produced in the thickness range from 12 to 20 mm. Thickness tolerances are defined in the standard EN 315.

Some of physical and mechanical parameters

Nominal thickness	The number of	Thickness tolerance [mm]		Density	Strength parameters			
					Static	bending	Modulus o	of elasticity
	layers			[kg/m3]	[MPa]		[MPa]	
		min.	max.	[1.6/11.0]	II	Т	II	Т
12	4+WG+4	11,2	12,6	1030	50	40	5000	3000
15	5+WG+5	14,1	15,7	950	50	40	5500	5000
18	7+WG+7	17,1	18,7	900	50	40	5500	5000
20	7+WG+7	19,0	20,8	850	60	50	6000	5000

^{*}WG- damping layer

Humidity

The humidity of sound damping panel is in range of 10±5% (according to PN-EN 322).

Standard formats

2440 x 1250mm or as agreed with the customer.

Tolerances length and sheet width: ± 3.5 mm (according to PN-EN 315).

Tolerances of squareness edge: ± 1.0 mm / m of side length (according to EN 315).

Processing options:

Cutting into smaller formats; simple and profile processing of edges, drilling holes, milling grooves, grooves, rebates; machining on CNC machining centers.

Application

A plate with increased sound and vibration absorption capacity, intended for installation in motor vehicles and rolling stock.



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