

Artboard RECORE® P



Technical Data Sheet

Product description: Composite panels on phenolic base

Combines strength, low weight and fire safety in the same material. Artboard panels consist of number of layers of foamed fiber composites compressed during high temperature into a laminate. The material composition gives the panel low weight, high stiffness, dimensional stability, fire resistance, as well as resistance to moisture and chemicals and makes it very easy to process.

Additional information: we produced individually on request **phenolic composite molded parts** - prefabricated elements for air ducts and interior parts.



Application	R 	M 	Standard dimension		
References	ICE3, ICEx	AIDA Cruiser	2440 mm X 1220 mm		
	Velaro	Viking Line			
	Zefiro V300	Royal Caribbean			
Typical properties	Standard	Unit	P160	P210	
Density (nominal)	ISO 845	kgm ³	160	210	
Density tolerance +/- 10%			meet	meet	
Compressive strength	DIN51910	Nmm ²	0,85	4,0	
Compressive modulus	ISO 178	Nmm ²	70	70	
Tensile strength	ISO 527	Nmm ²	7	15	
Tensile modulus	ISO 527	Nmm ²	300	650	
Ultimate elongation	ISO 527	%	5	5	
Impact resistance	DIN 53453	kJm ²	2	4	
Flesural modulus	ISO 178	Nmm ²	420	575	
Thermal conductivity	ISO 8301	Wm ⁻¹ K ⁻¹	0,039	0,042	
Fire properties ⁽²⁾	DIN 5510	R	S4SR2ST2	S4SR2ST2	
	EN 45545-2	R	meet (thickness 6-20)	meet (thickness 6-20)	
	AFNOR NF 16-101	R	F0M1	F0M1	
	IMO A 653	M			
	IMO A 799	M			
Sound reduction index ⁽¹⁾	ISO 10140-1	dB	20-28	20-28	
Thermal linear expansion	ASTM D696-7	(-30°C - +60°C) K ⁻¹	20 × 10 ⁻⁶	20 × 10 ⁻⁶	
Water absorption	ISO 62	%	5-10	3-8	
Elongation in length		%	< 0,5	< 0,5	
Elongation in width		%	< 0,5	< 0,5	

(1) Tested on P210 8 mm samples thickness-whole frequency range on customer request

Information is current for January 2020

(2) Fire properties testing according different standard upon request

(3) Finishing option, other dimensions, thickness and density upon request

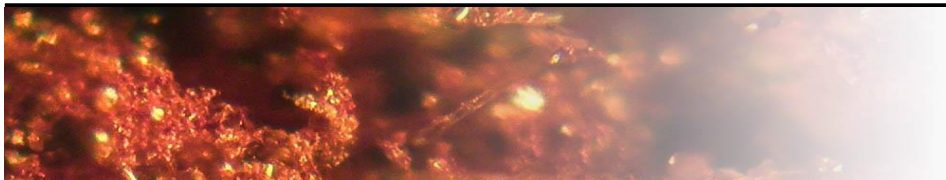
(4) Packaging in a wooden box/crate: standard crate is 2500 x 1300 x 1200 mm (LxWxH)

(5) We produced individually on request **phenolic composite molded parts** - prefabricated elements for air ducts and interior parts shaped in form.

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Product description: Composite panels on phenolic base

Combines strength, low weight and fire safety in the same material. Artboard panels consist of number of layers of foamed fiber composites compressed during high temperature into a laminate. The main components of the foam layer are thermosetting plastic and fiberglass. The material composition gives the panel low weight, high stiffness, dimensional stability, fire resistance, as well as resistance to moisture and chemicals and makes it very easy to process.

Additional information: we produced individually on request **phenol moulded parts - prefabricated elements** and parts. Glass fibre reinforced material shaped in moulds by hot press laminating technology.



			Standard dimension		
			2440 mm X 1220 mm		
Typical properties	Standard	Unit	P133	P160	P210
Density (nominal)	ISO 845	kgm ³	133	160	210
Thickness (Thickness tolerance +/- 0.2 mm. up to 10 mm., or +/- 0.5 mm. from 10 mm.)		mm.	18, 20	4, 5, 6, 8, 10, 12, 15, 18, 20	2, 3, 4, 5, 6, 8, 10, 12, 15, 18, 20
Glossy surface per side. Additional option			Yes	Yes	Yes
Production in other sizes (max. 2650x1220 mm.) and cutting into parts is an additional option upon request for extra charge.			Yes	Yes	Yes
Basic properties:	Low weight, high rigidity, an energy efficient, excellent sound and vibration insulation, sound absorption, high fire resistance, water resistance, high dimensional stability, good compression strength, conduct a wi-fi and cellular signal				
Processing methods:	Cutting, gluing, drill, cover with different types of materials: metal (aluminum), HPL, nylon flock, fiberglass, veneer etc. for achieving anti scratch resistance, for decorative and for other purposes.				
Application:	walls, ceiling, vertical and horizontal partitions, floor, underfloor heating systems, as insulation and to reduce sound transmission/sound absorption. Channels, air ducts, moldings, interior details, decorative elements in the interior etc.				
Additional information for molded parts:	We produced individually on request phenolic composite molded parts. Glass fibre reinforced material shaped in moulds by hot press laminating technology. The production of these parts requires drawings and custom mold making. Prefabricated elements and parts from Artboard are used in ceilings, haunches, walls and air-ducts.				
Industry:					
Certificates and additional data:	ISO 9001:2015, MED-B, MED-D Quality System for the products, EN45545-2 2015, REACH (European Union Regulation for production and use of chemical substances)				

Information is current for January 2020

- (1) Tested on P210 8 mm samples thickness-whole frequency range on customer request
- (2) Fire properties testing according different standard upon request
- (3) Finishing option, other dimensions, thickness and density upon request
- (4) Packaging in a wooden box/crate: standard crate is 2500 x 1300 x1200 mm (LxWxH)
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