Plăci rigide ACP Verla Plac

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Panel Thickness	Standard	Unit	2mm	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.3	0.3	0.3	0.3
Aluminum thickness deviation	DIN 1784	mm	±0.01	±0.01	±0.01	±0.01
Weight		Kg/m^2	2.92	3.85	4.76	6.75
Tolerance in length	DIN 16927/ISO 11833- 1	mm	-0/+2	-0/+2	-0/+2	-0/+2
Tolerance in width	DIN 16927/ISO 11833- 1	mm	-0/+1.5	-0/+1.5	-0/+1.5	-0/+1.5
Tolerance in thickness	DIN 16927/ISO 11833- 1	mm	±0.15	±0.10	±0.10	±0.15
Horizontal flatness	DIN ISO 1101	mm	6	5	4	4
Longitudinal roughness	DIN ISO 1101	mm	6	5	5	5
Technical Properties						
Section Modulus W	DIN 53293	cm^3/m	1.01	1.25	1.75	2.75
Rigidity (Poisson's ratioμ	DIN 53293	kN m²/m	0.67	0.14	0.28	0.63
Alloy	EN 573-3	ENAW	1100			
Temper of Cover Sheets	EN 515		H16/H18			
Modulus of Elasticity	EN 1999 1- 1	N/mm^2	70,000			
Tensile Strength of Aluminium	EN 485-2	N/mm^2	Rm≥145			
0.2% Proof Stress	EN 485-2	N/mm^2	Rp0.2≥100			
Elongation	EN485-2	%	A50≥2			
Linear Thermal Expansion	EN 1999 1- 1	mm/m	2.4 at 100 Temp difference			
Core						
Polyethylene.Typ LD-PE		g/cm^3	0.935			
Surface			Coil Coating			
Lacquering			Polyester based (PE)			
Thickness of coating		μm	≥16	≥16	≥16	≥16
Gloss (initial value)	ECCA T2	%	20- 100			
Pencil Hardness	ECCA T4		2H			
Acoustical Properties						
Sound Absorption Factor αs	ISO 354		0.05			
Sound Transmission Loss Rw	ISO 717- 1	DB	23	25	26	28
Loss Factor d	EN ISO 6721		0.0062	0.0072	0.0087	0.0138
Thermal Properties						
Thermal Resistance R	DIN 52612	m²K/W	0.0036	0.0069	0.0103	0.0172
Heat Transition Coefficient U	DIN 4108	W/m^2 K	5.98	5.65	5.54	5.34
Temperature Range			-50...+80			

BUCUREȘTI:
bucuresti@verla.ro
Tel: +4 0729 016 484

CLUJ-NAPOCA
cluj@verla.ro
Tel: +4 0721 242 216

IAȘI
iasi@verla.ro
Tel: +4 0745 381 525

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Panel Thickness	Standard	Unit	2mm	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.3	0.3	0.3	0.3
Aluminum thickness deviation	DIN 1784	mm	±0.01	±0.01	±0.01	±0.01
Weight		Kg/m²	2.92	3.85	4.76	6.75
Tolerance in length	DIN 16927/ISO 11833- 1	mm	-0/+2	-0/+2	-0/+2	-0/+2
Tolerance in width	DIN 16927/ISO 11833- 1	mm	-0/+1.5	-0/+1.5	-0/+1.5	-0/+1.5
Tolerance in thickness	DIN 16927/ISO 11833- 1	mm	±0.15	±0.15	±0.15	±0.15
Horizontal flatness	DIN ISO 1101	mm	6	5	4	4
Longitudinal roughness	DIN ISO 1101	mm	6	5	5	5
Technical Properties						
Section Modulus W	DIN 53293	cm³/m	1.32	1.55	1.85	2.96
Rigidity (Poisson's ratio μ=0.3)E.J	DIN 53293	kN m²/m	0.97	0.16	0.34	0.86
Alloy	EN 573-3	ENAW	3003			
Temper of Cover Sheets	EN 515		H16/H18			
Modulus of Elasticity	EN 1999 1- 1	N/mm²	70,000			
Tensile Strength of Aluminium	EN 485-2	N/mm²	Rm≥175			
0.2% Proof Stress	EN 485-2	N/mm²	Rp0.2≥120			
Elongation	EN485-2	%	A50≥3			
Linear Thermal Expansion	EN 1999 1- 1	mm/m	2.4 at 100 Temp difference			
Core						
Polyethylene.Typ LD-PE		g/cm³	0.935			
Surface			Coil Coating			
Lacquering			Fluorocarbon based (PE)			
Thickness of coating		μm	≥16	≥16	≥16	≥16
Gloss (initial value)	ECCA T2	%	20- 100			
Pencil Hardness	ECCA T4		2H			
Acoustical Properties						
Sound Absorption Factor αs	ISO 354		0.05			
Sound Transmission Loss Rw	ISO 717- 1	DB	23	25	26	28
Loss Factor d	EN ISO 6721		0.0062	0.0072	0.0087	0.0138
Thermal Properties						
Thermal Resistance R	DIN 52612	m²K/W	0.0036	0.0069	0.0103	0.0172
Heat Transition Coefficient U	DIN 4108	W/m² K	5.98	5.65	5.54	5.34
Temperature Range			-50...+80			

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bucuresti@verla.ro
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CLUJ-NAPOCA
cluj@verla.ro
Tel: +4 0721 242 216

IAȘI
iasi@verla.ro
Tel: +4 0745 381 525

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Panel Thickness	Standard	Unit	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.5	0.5	0.5
Aluminum thickness deviation	DIN 1784	mm	±0.01	±0.01	±0.01
Weight		Kg/m²	4.65	5.63	7.42
Tolerance in length	DIN 16927/ISO 11833- 1	mm	-1/+2	-1/+2	-1/+3
Tolerance in width	DIN 16927/ISO 11833- 1	mm	-1/+1.5	-1/+1.5	-1/+1.5
Tolerance in thickness	DIN 16927/ISO 11833- 1	mm	±0.15	±0.15	±0.15
Horizontal flatness	DIN ISO 1101	mm	6	5	5
Longitudinal roughness	DIN ISO 1101	mm	7	6	6
Technical Properties					
Section Modulus W	DIN 53293	cm³/m	1.25	1.75	2.75
Rigidity (Poisson's ratioμ=0.3)E.J	DIN 53293	kN m²/m	0.14	0.28	0.63
Alloy	EN 573-3	ENAW	1100		
Temper of Cover Sheets	EN 515		H16/H18		
Modulus of Elasticity	EN 1999 1- 1	N/mm²	70,000		
Tensile Strength of Aluminium	EN 485-2	N/mm²	Rm≥145		
0.2% Proof Stress	EN 485-2	N/mm²	Rp0.2≥100		
Elongation	EN485-2	%	A 50≥2		
Linear Thermal Expansion	EN 1999 1- 1	mm/m	2.4 at 100 Temp difference		
Core					
Polyethylene.Typ LD-PE		g/cm³	0.935		
Surface			Coil Coating		
Lacquering			Fluorocarbon based (PVDF)		
Thickness of coating		μm	two coating≥26, three coating:≥32		
Gloss (initial value)	ECCA T2	%	30- 80		
Pencil Hardness	ECCA T4		H		
Acoustical Properties					
Sound Absorption Factor αs	ISO 354		0.05		
Sound Transmission Loss Rw	ISO 717- 1	DB	25	26	28
Loss Factor d	EN ISO 6721		0.0072	0.0087	0.0138
Thermal Properties					
Thermal Resistance R	DIN 52612	m²K/W	0.0069	0.0103	0.0172
Heat Transition Coefficient U	DIN 4108	W/m² K	5.65	5.54	5.34
Temperature Range			-50...+80		

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