

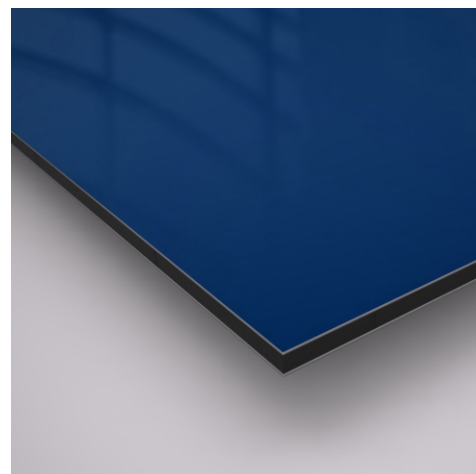
# Technical data

**CODE:** 363911WP, 363480P, 363900P, 364011WP

**PRODUCT:** ACP FR

**NOTE:** TECHNICAL DATA

**IMAGE:**



**LAST UPDATE:**

4/2022

# ALUMINIUM COMPOSITE PANEL - FR

Thickness (mm)	3 mm 0,30 mm AL	3 mm 0,30 mm AL	4 mm 0,50 mm AL	4 mm 0,50 mm AL
Weight (kg/m <sup>2</sup> )	4,15	4,15	5,6	5,6
Standard Size	2000	1500	1220	1500
W: 1000 ~ 1570 mm				
L: 1000 ~ 6000 mm				
Core	Unbroken core			
Polyethylene LDPE (g/Cbm)	0,92			
Surface	Film cover			
Painting	PVDF COATING			
Hardness (Pencil hardness)	2H			
More than 50 colors	See color chart			
Temperature Resistance	From -40°C to +80°C			
UV stability	Very good			

Panel thickness (mm)	2	3	4	6
<b>Technical properties</b>				
Moment of inertia I [cm <sup>4</sup> /m]	0,049	0,123	0,231	0,548
Section modulus W [cm <sup>3</sup> /m]	0,51	0,81	1,11	1,71
Rigidity E·J [kNcm <sup>2</sup> /m]	345	865	1620	3840
Alloy/ condition of the cover sheets	1100 H18	1100 H18	1100 H18	1100 H18
Modulus of elasticity [N/mm <sup>2</sup> ]	70,000	70,000	70,000	70,000
Tensile strength of the cover sheet [N/mm <sup>2</sup> ]	R <sub>m</sub> : 145 - 185	R <sub>m</sub> : 145 - 185	R <sub>m</sub> : 145 - 185	R <sub>m</sub> : 145 - 185
0,2% proof stress	R <sub>p0,2</sub> : 110 - 175	R <sub>p0,2</sub> : 110 - 175	R <sub>p0,2</sub> : 110 - 175	R <sub>p0,2</sub> : 110 - 175
Enlogation	A <sub>50</sub> ≥ 3%	A <sub>50</sub> ≥ 3%	A <sub>50</sub> ≥ 3%	A <sub>50</sub> ≥ 3%
Linear thermal expansion	2,4 mm/m at 100°C temperature difference			
<b>Acoustical properties</b>				
Sound absorption factor α <sub>s</sub>	0,05	0,05	0,05	0,05
Airborne sound insulation index R <sub>w</sub> [dB]	23	24	25	26
Loss factor d	0,0048	0,0057	0,0072	0,0102
<b>Thermal properties</b>				
Thermal resistance 1/λ [m <sup>2</sup> K/W]	0,0047	0,0080	0,0113	0,0180
Heat transition coefficient k [W/m <sup>2</sup> K]	5,72	5,61	5,50	5,30
Water absorption [%] DIN 53495	0,01	0,01	0,01	0,01
Static charge	no antistatic treatment necessary			