

## 4MANN ALUMINUM COMPOSITE PANEL

### TECHNICAL DATA SHEET FIRE RETARDENT – Class B ( As per EN Standards )

PARAMETERS	ASTM STD.	UNIT	Tolerance ±	Exterior / Interior
				4FR - Platinum
				4MM
<b>Physical Properties of panel</b>				
Thickness of Panel	-	[mm]	±0.20	4.00
Weight of Panel	-	[kg/m <sup>2</sup> ]	± 5 %	6.50
<b>Skin Properties</b>				
Thickness of Skin	-	[mm]	±0.02	0.50
Aluminum Alloy	ASTM B209M	-	-	AA 1xxx/3xxx
Temper	ASTM B209M	-	-	H18/H16
Tensile Strength	ASTM E8	[N/mm <sup>2</sup> ]	±5	140
0.2% Proof Stress	ASTM E8	[N/mm <sup>2</sup> ]	±5	110
Elongation	ASTM E8	[%]	±2	6
Dry Film Thickness	ASTM D7091	µm	±5	30
Modulus of Elasticity	ASTM E8	[N/mm <sup>2</sup> ]	±5	70,000
<b>Surface</b>				
Surface Finish	-	-	-	PVDF Coated
Gloss (initial value)	ASTM D 523	%	±5	30
<b>Acoustical Properties</b>				
Sound Transmission Loss Rw	ASTM E 90	[db]	-	26
<b>Thermal Properties</b>				
Heat Transition Coefficient U	ASTM C1363	[W/m <sup>2</sup> K]	-	5.53
Linear Thermal Expansion	ASTM D 696	[mm/M/°C]	-	2.3 (at 100 °C)
Continuous use Temp.	ASTM C1363	[°C]	-	-50...+80
<b>Core Properties</b>				
Density of core	ASTM D792	[gm/cm <sup>3</sup> ]	±5%	1.26
Compounds (Contain ATH & Oxide of Mg & Cu)	-----	%	-	100% Fire Retardant LDPE
<b>Fire Properties &amp; Classification</b>				
Classification	EN-13501-1:2007			
Fire Behavior (Average Rest Length of Burning)	B			
Smoke Density	S1			
Surface Flaming & Edge Flaming for 20 Sec.	d0			