

PRODUCT COMPOSITION

DIMENSIONALS SPECIFICATIONS OF THE PANEL	
Total thickness	4 mm
Aluminium thickness	0,4 mm
Weight	7,41 kg/m ²
Standard width	1.250 mm
Standard length	5.000 mm
Minimum / maximum length (under order)	2.000 / 7.000 mm
Core	Mineral FR
Thickness tolerance	+0,2 mm
Width tolerance	+2,5 mm
Length tolerance	+20 mm
Diagonal tolerance	± 2 mm/m
MECHANICAL REATURES OF THE PANEL	
Moment of inertia (J)	0,2603 (cm ⁴ /m) DIN 53293
Rigidity (EJ)	1.822 (KNcm ² /m) DIN 53293
Section modulus (W)	0,13015 (cm ³ /m) DIN 53293
Modulus of elasticity (E)	15.707 (N/mm ²) UNE EN ISO 527-1/2
Ultimate tensile strength (R _m)	43,26 (N/mm ²) UNE EN ISO 527-1/2
Yield strength (R _{p0,2})	30,69 (N/mm ²) UNE EN ISO 527-1/2
Elongation (A)	5,62 (%) UNE EN ISO 527-1/2
Audible reduction (R _w)	29,7 (dB) UNE EN ISO 717-1
Acoustic insulation (R _(A))	29,4 (dB) NBE-CA-88
Thermal resistance (R)	0,0113 (m ² K/W) UNE 92-202-89:1989
Thermal conductivity (λ)	0,410 (W/mK) UNE 92-202-89:1989
Stability referred to temperature	-50°C / +80°C
ALUMINIUM FEATURES	
Aluminium alloy	3005 UNE EN 573-3
Ultimate tensile strength (R _m)	170 (N/mm ²)
Yield strength (R _{p0,2})	151 (N/mm ²)
Elongation (A)	3,5 (%)
Modulus of elasticity (E)	70.000 (N/mm ²)
Thermal expansion (α)	2,3 (mm/m) Δ 100°
REACTION TO FIRE TEST	
Architectural	B s1 d0 UNE EN ISO 13501
SPECIFICATIONS FOR DECORATIVE SURFACES	
Internal face	Mill finish
External face	Decorative PVC fim 200 μ thickness available in different colours, and patterns such wood and metals look alike
PHYSICAL PROPERTIES OF THE OUTSIDE FACE	
Film Thickness ECCA T1	200 μ
Tensile stress at break DIN 53456	> 20 N/mm ²
Elongation at break DIN 53456	> 80%
Weather resistance DIN 53456	Maximum solar radiation is 8>GJ/m ² in the Xenotest 450 grade 4 of the grey scale (DIN EN 20105-A02) following requirements RAL-GZ 716/1 part 7
CORROSION AND CHEMICAL RESISTANCE	
Salt acid spray fog Resistance ECCA T8	EN 1396 CLASS 3 / C4 after 1.000 hours testing
Humidity Resistance ISO 6270	Without modification after 1.000 hours testing
QUV-B test ECCA T10 (After 500 hours light cycle testing)	Colour change of the surface E ≤ 1 Gloss decrease ≤ 10% Chalking ≤ 10%
ADDITIONAL INFORMATION	
Due to a acrylic film composition the temperature recommended for bending should be more than 10°C, stress whitening can occur when forming.	