ACP PROFIT
Technical Data Sheet

Specification

TEST DESCRIPTION	TEST RESULT – PRODUCT QUALITY	
DIMENSION DEVIATION	Length Difference: ≤ ± 3 mm	
	Thickness Difference: ≤ ± 0,2 mm (For 2MM Panel ≤ + 0,2 mm only)	
	Diagonal Deviation: ≤ 3 mm	
	Out of straight at sides: ≤ 1 mm/m	
	Angular tolerance at 90 ≤ 0,5 °	
	Warp: ≤ 3 mm/m	
APPEARANCE	Clean surface without swelling flaws, scratches and aberrations	
LUSTER DEVIATION	Face: 0,5/50,0	
	Back: 0,5/50,0	
COATING THICKNESS	Face: ≥ 25,0 µm	
	Back: ≥ 25,0 µm	
SURFACE DENSITY (KGS/M²)	2 mm – 0,30 mm	3,24
	3 mm – 0,30 mm	4,29
	4 mm – 0,30 mm	5,34
PENCIL HARDNESS	≥ 2H	
SURFACE TOUGHNESS	Inner Panel	
ADHESIVE	No less than grade 1	
IMPACT STRENGTH	50 kg/cm Without peeling & cracking of paint	
RESISTANCE TO SOLVENT	Unchanged after cleaning 100 times with dimethylbenzene	
180° PEEL STRENGTH (N/mm)	2 mm – 0,30 mm	≥ 8,0
	3 mm – 0,30 mm	≥ 8,0
	4 mm – 0,30 mm	≥ 8,0
MODULUS OF ELASTICITY (N/mm²)	2 mm – 0,30 mm	≥ 62,000
	3 mm – 0,30 mm	≥ 68,000
	4 mm – 0,30 mm	≥ 74,000
RIGIDITY E x J (kNcm²/m)	2 mm – 0,30 mm	340
	3 mm – 0,30 mm	780
	4 mm – 0,30 mm	1520
TEMPERATURE RESISTANCE	Unchanged after -40 °C to +80 °C 20 cycles	
COEFFICIENT OF HEAT EXPANSION	2 mm – 0,30 mm	≥ 2,90×10-5 °C-1
	3 mm – 0,30 mm	≥ 3,00×10-5 °C-1
	4 mm – 0,30 mm	≥ 3,10×10-5 °C-1
DEFORMATION TEMPERATURE	≥ 110 °C	
LINEAR THERMAL EXPANSION	≤ 3,1 mm/m at 100° expansion temperature difference	
HEAT TRANSITION COEFFICIENT	5,6–5,8 Wm2k	
0,2% PROOF STRESS	Rp 0,2: 110–175 N/mm2	
SOUND ABSORPTION FACTOR	0,04–0,05 Alphas	
AIRBORNE SOUND INSULATION INDEX Rw	23–25 dB	
WATER ABSORPTION	≤ 0,01 %	

Specification

SURFACE COATING SPECIFICATIONS	
Surface Coating	Polyester Paint
Colour Base	Pigment made in Japan
Standard Colour	Pure White
Tolerance of Colour	≥ ± 2,0 ΔE
Lacquering	2 layers of structural resistant baked lacquer providing optimum rigidity and durability
Surface Finishing	Matt and High Gloss
Tolerance of Glossiness	≥ ± 5,0 %
Surface Outdoor Durability	10 years (the change of color ≥ 4 NBS)

NOTE: All above information shall only used as a guide; buyers shall independently test and determine the products suitability. The mentioned data are average of test result and should not be used for the purpose of lawsuit or warranty.