CHANGZHOU ALCO INTERNATIONAL CO.,LTD.

THICKNESS：	20mm	25mm
Face side Aluminium thickness:	1.00mm	1.00mm
Back side Aluminium thickness:	1.00mm	1.00mm
Panel weight: (kg/m^2)	7.4	7.8
The mechanical properties：		
Moment of inertia I (cm^4/m)	19.85	31.67
Section modulus W (cm^3/m)	19.00	24.00
Plate stiffness $E \cdot I$($KNcm^2/m$)	139000	221700
Aluminium Alloy:	AA3003	
Modulus of Elasticity (N/mm^2)	70000	
Tensile Strength (N/mm^2)	Rm≥220	
0.2% Yield stress (N/mm^2)	$Rp_{0.2}$≥130	
Elongation: (EN485-2:1994)	A_{50}≥8	
Linear thermal expansion:	2.4mm/m 100℃ temperature difference	
Surface coating：	PVdF	
Gloss (initial value)	30%-45%	
Pencil hardness:	HB-F	
Aluminium honeycomb core：		
Cellular size	1/4”(6.3mm)	
Density:	About 80kg/ m^3	
Compressive strength (MIL-STD-401)	4N/ mm^2	
Acoustic property：		
Acoustical absorption coefficient a_3	0.05	
Sound insulation index (According to ISO717-1) R_W(dB)	23	25
Thermal performance：		
Heat conductivity coefficient λ* (W/(m^2·K))	2.25	2.70
Thermal resistance value R (1/Λ) (m^2K/W)	0.0089	0.0093
Heat transfer coefficient U (K) (W/(m^2·K))	5.59	5.575

* Heat conductivity coefficient “ λ ” is based on panel thickness.

CHANGZHOU ALCO INTERNATIONAL CO.,LTD.

THICKNESS：	10mm	15mm
Face side Aluminium thickness:	1.00mm	1.00mm
Back side Aluminium thickness:	0.50mm	1.00mm
Panel weight: (kg/m^2)	5.3	7.0
The mechanical properties：		
Moment of inertia I (cm^4/m)	3.13	10.78
Section modulus W (cm^3/m)	4.63	14.00
Plate stiffness $E \cdot I$($KNcm^2/m$)	21900	75500
Aluminium Alloy:	AA3003	AA3003
Modulus of Elasticity (N/mm^2)	70000	
Tensile Strength (N/mm^2)	Rm≥125	Rm≥220
0.2% Yield stress (N/mm^2)	$Rp_{0.2}$≥80	$Rp_{0.2}$≥130
Elongation: (EN485-2:1994)	A_{50}≥5	A_{50}≥8
Linear thermal expansion:	2.4mm/m 100℃ temperature difference	
Surface coating：	PVdF	
Gloss (initial value)	30%-45%	
Pencil hardness:	HB-F	
Aluminium honeycomb core：		
Cellular size	1/4”(6.3mm)	
Density:	About 80kg/ m^3	
Compressive strength (MIL-STD-401)	4N/ mm^2	
Acoustic property：		
Acoustical absorption coefficient a_3	0. 05	
Sound insulation index (According to ISO717-1) R_W(dB)	21	22
Thermal performance：		
Heat conductivity coefficient λ* ($W/(m^2 \cdot K)$)	1.35	1.78
Thermal resistance value R (1/Λ) (m^2K/W)	0.0074	0.0084
Heat transfer coefficient U (K) ($W/(m^2 \cdot K)$)	5.64	5.605

* Heat conductivity coefficient “ λ ” is based on panel thickness.