Jiangsu Aluwedo Aluminum Composite Panel Co., LTD

ALUWEDO®
ALUMINUM COMPOSITE PANEL

Add: No.3 Zhenxing Road, Zhangjiagang, Jiangsu, China

Tel: 0086-512-56991792 Fax: 0086-512-56991152

Aluminum Honeycomb Panel

Technical Data

Dimensional Specification	
1.1. Total thickness [mm]	15
1.2. Aluminum thickness top cover sheet [mm]	1
1.3. Aluminum thickness back cover sheet [mm]	1
1.4. Thickness tolerance [mm]	±0.2
1.5. Weight [kg/m2]	6
1.6. Standard width [mm]	1200
1.7. Width tolerance [mm]	±2
1.8. Minimum / maximum length [mm]	3000
1.9. Length tolerance [mm]	±3
1.10. Core	Aluminum Honeycomb
Aluminum sheets	
2.1. Aluminum	A3003
2.2. Ultimate tensile strength, Rm [N/mm2] ISO 6892 - 1:2009	14900
2.3. Modulus of elasticity, E [N/mm2]	30000
2.4. Anticorrosive pretreatment	Yes
Aluminum core	
3.1. Aluminum alloy	A3003
3.2. Compressive strength [MPa]	195
3.3. Core density [kg/m3]	38
3.4. Cell size [mm]	9.5
3.5. Anticorrosive pretreatment	Yes
Mechanical properties	
4.1. Moment of inertia, J [cm4 /m] DIN 53293	25
4.2. Rigidity (theoretical value) EJ [KNcm2 /m] DIN 53293	91000
4.3. Section modulus, W [cm3 /m] DIN 53293	24.5
4.4. Audible reduction, (in house testing) Rw [dB]	18.5
4.5. Acoustic insulation, (in house testing) R(A) [dB]	20
4.6. Thermal resistance, R [m2 K/W] ASTM E1530 - 11	0.013
4.7. Thermal conductivity, λ [W/mK] ASTM E1530 - 11	1250
4.8. Aluminum thermal expansion [10 - 6 m/(m K)]	21
4.9. Temperature stability [℃]	-40 / +80
Fire classification	
5.1. Building market: EN 13501 - 1	A2 – s1, d0