

MECHANICAL PROPERTIES OF 6060/6063 ALUMINIUM ALLOY EXTRUDED PROFILES

Property	Value	Related Standard
1 Alloy	6060 / 6063 / AlMgSi0.5	EN 573-3 DIN 1725
2 Specific Gravity	2.71 gr/cm ³	
3 Coefficient of thermal expansion (20-200°C)	23×10 ⁻⁶	
4 Modulus of Elasticity	70000 N/mm ²	
5 Ultimate Tensile Strength (*)		
6063-T5	215 N/mm ²	EN 755-2
6060-T5	160 N/mm ²	EN 755-2
6 Yield Strength (*)		
6063-T5	160 N/mm ²	EN 755-2
6060-T5	120 N/mm ²	EN 755-2
6 Elongation A (%)		
6063-T5	8%	EN 755-2
6060-T5	8%	EN 755-2
7 Thickness of powder coating on visible surface	60 microns	QUALICOAT
8 Thickness of anodic oxide film (anodizing)	5 / 10 / 15 / 20 microns (According to exterior or interior application of the extruded profile at the building)	QUALANOD

(*) Mechanical property limits vary according to the thickness of the profile (EN 755-2)

Standards for dimensional tolerances of extruded aluminium profiles : EN 755-9 / EN 12020-2

Standards for extruded aluminium rods, bars and tubes: EN 755-3 / EN 755-4 / EN 755-5 / EN 755-6 and EN 755-8