

SARAY®

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 x 10 ⁻⁶	
4	Modulus of Elasticity	70000 N/mm ²	
5	Ultimate Tensile Strength (*) 6063-T5 6060-T5	215 N/mm ² 160 N/mm ²	EN 755-2 EN 755-2
6	Yield Strength (*) 6063-T5 6060-T5	160 N/mm ² 120 N/mm ²	EN 755-2 EN 755-2
6	Elongation A(%) 6063-T5 6060-T5	8 % 8 %	EN 755-2 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.