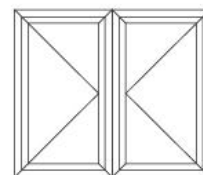


ALUMINUM WINDOWS PROFILE SPECIFICATION - TEEYEO

TeeYeo Industry reserves the right to change its product specifications at any time. It is the responsibility of the person specifying the use of this product and of the purchaser to ensure that product specifications relied upon for design or procurement purposes are current and that the product is suitable for its intended use in each instance.

Aluminum Windows Profile Introduction:

The Aluminum Profiles Made by TeeYeo Industry is always carrying out the National Standard GB5237-2008. It's main parameters are as follows



CHEMICAL COMPOSITION OF ALUMINUM ALLOY.

Alloy Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Single	Total	
6063①	0.2-0.6	≅0.35	≅0.10	≅0.10	0.45-0.90	≅0.10	≅0.10	≅0.10	≅0.05	≅0.05	Reminder
6061①②	0.4-0.8	≅0.7	0.15-0.4	≅0.15	0.8-1.2	0.04-0.35	≅0.25	≅0.15	≅0.05	≅0.05	Reminder
6060②	0.3-0.6	0.1-0.3	≅0.10	≅0.10	0.35-0.6	≅0.05	≅0.15	≅0.10	≅0.05	≅0.05	Reminder
6082②	0.7-1.3	≅0.5	≅0.10	0.4-1.0	0.6-1.2	≅0.25	≅0.2	≅0.1	≅0.05	≅0.05	Reminder

AMBIENT TEMPERATURE MECHANICAL FUCTION OF THE PROFILE.

Alloy	Temper	Tensile strength test			Hardness	
		Tensile strength σ_b M pa	Non-proportional Stretching Stress $\sigma_{p0.2}$ (M Pa)	Stretching rate δ (%)	HV	HW
6063	T5	≅160	≅110	≅8	≅58	≅8
6061	T4	≅180	≅110	≅16	/	/
	T6	≅265	≅245	≅8	/	/

ALUMINUM STANDARDS.**1. Mill finish profiles**

Size Tolerance	Plane gap		Bending		Torsional strength		Angle		Length	
mechanical property	Arbitrary 25mm width ≤ 0.2 mm		Arbitrary 30mm width ≤ 0.5		≤ 0.026		± 2		nominal length $\leq 6m+15$ mm	
	(HW)		Tensile strength		Non-proportional stretching stress		Stretching rate			
	≥ 8		≥ 160		≥ 110		8%			
chemical composition(%)	Si	Mg	Fe	Cu	Mn	Zn	Cr	Ti		
	0.2-0.6	0.45-0.9	≤ 0.35	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	0.2-0.6		

Remarks:If any more high technology needs,we can settle them by negotiation.

2. Powder coating profiles.

Item	Quality Standard
Gloss	Customer request
Thickness of coating	Minimum local thickness: ≥ 40 Maximum local thickness: ≤ 120
Adhesion	Grade 0
Cupping Test	5mm,no crack
Impact Test	5.5NM,no crack
Hardness Text	Not less than 80
Resistance to Cracking on bending	3mm,no crack
Mortar Resistance	No visible change and no removal
Hydrochloric acid resistance	No forth,ruffle or removal
Salt spray test	1000h,no forth and no shedding

3. PVDF COATING PROFILE.

Item	Quality Standard
Gloss	Customer request, Allow \pm 5 shine unit
Thickness of coating	Two coating average of five points is not less than 30 μ m; Three coating average of five points is not less than 40 μ m; Four coating average of five points is not less than 65 μ m.
Rigidity	\geq 1H
Adhesion	Grade 0
Impact Test	2.5mm impact pits, small cracks are allowed, but there is no sticky down coating allowed on the viscose strip
Wearable Test	coefficient of wear more than 1.6L/ μ m
Hydrochloric acid Test	No froth, ruffle or removal
Solvent Test	No froth, ruffle or removal
Mortar Resistance	No visible change and no removal
Salt Spray Resistance	4000h, no corrosion
Humidity Resistance	4000h, not more than grade 1
Accelerated weathering test	2000h, non-powder phenomenon is level(0), loss rate of light > 85%, discoloration nature reaches at least level 1

4.THERMAL BARRIER PROFILES.

Item	Load mode	Testing result						The average amount of insulation material deformation
		Longitudinal shear eigenvalues(N/mm)			Transverse shear eigenvalues(N/mm)			
		Room temp.	Low temp.	Low temp.	Room temp.	Low temp.	Low temp.	
Longitudinal shear test	Insertion methodology	≥ 24	≥ 24	≥ 24	≥ 24	-	-	-
High temperature endurance load test	Insertion methodology	-	-	-	-	≥ 24	≥ 24	≤ 0.6

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